

NCAR/TN-369+STR
NCAR TECHNICAL NOTE

January 1993

IN-92
166342
P-223

A Revised and Expanded Catalogue of Mass Ejections Observed by the *Solar Maximum Mission Coronagraph*

J.T. Burkepile
O.C. St.Cyr

(NASA-CR-193146) A REVISED AND
EXPANDED CATALOGUE OF MASS
EJECTIONS OBSERVED BY THE SOLAR
MAXIMUM MISSION CORONAGRAPH
(National Center for Atmospheric
Research) 223 p

N93-26556

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HIGH ALTITUDE OBSERVATORY

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH
BOULDER, COLORADO

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PREFACE

This is a revised and expanded catalogue of coronal mass ejections identified in data from the High Altitude Observatory's coronagraph aboard NASA's *Solar Maximum Mission* spacecraft. The list includes events observed during 1980 and the period 1984 through 1989. The first edition of this catalogue was published in July 1990 (NCAR/TN-352+STR). In this edition, descriptions and measurements of mass ejections included in the first catalogue have been expanded and revised (where necessary). A few additional mass ejections have been identified in the data and have been added to the listing. The catalogue has been expanded to include morphological descriptions of each event and apparent speed measurements, whenever possible. We anticipate that many other investigators, including members of other SMM instrument teams, solar observers with associated data sets, and interplanetary researchers will find this list useful.

J. T. Burkepile, January 1993

O. C. St.Cyr, January 1993

High Altitude Observatory

Boulder, Colorado.

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I. INTRODUCTION

The Solar Maximum Mission (SMM) observatory was launched February 14, 1980, from Cape Canaveral, Florida into a 574 km altitude circular orbit inclined 28°5 to the equator. The ~95 minute period of each SMM orbit was divided into roughly 60 minutes of satellite day and 35 minutes of satellite night. Among SMM's primary science objectives was the study of the dynamics of solar flares and the study of solar magnetic fields associated with the flare phenomenon. SMM's payload consisted of eight instruments that provided broad spectral coverage of radiation produced by solar flares.

HAO provided a white-light coronagraph/polarimeter (C/P) to study the relationship of the corona to the flare process. For a detailed description of the SMM coronagraph/polarimeter instrument and scientific objectives, see MacQueen *et al.* (1980). This instrument obtained data from March through September in 1980 before suffering an electronics failure that rendered it inoperative. A few weeks later, the SMM spacecraft attitude control system malfunctioned, and stable pointing of the spacecraft was no longer possible.

The *Challenger* space shuttle was launched on April 6, 1984, to attempt an in-orbit repair of SMM. That mission was successful in replacing both the spacecraft attitude control system and the coronagraph Main Electronics Box. Details of the retrieval, repair, and redeployment of SMM by the shuttle crew have been documented by Woodgate and Maran (1987).

The coronagraph resumed full operation in June 1984, monitoring the corona during the daylight portion of each orbit. Coronal observations were unavailable from 8-26 January, 1986 due to the loss of memory in the on-board spacecraft computer. Only a few coronal images were obtained between 26 January and 25 February 1986 due to the special observations of Comet Halley. Observations were interrupted in December 1986 when the instrument's dedicated tape recorder failed. Operation was restored in March 1987, with the data being stored on the spacecraft's single remaining tape recorder. This resulted in a degradation of the temporal resolution of the instrument (from 1.5 minutes between successive images before December 1986, to eight minutes between images beginning in April 1987). Observations continued until SMM lost attitude control on November 17, 1989. The spacecraft re-entered the Earth's atmosphere at 10:26 UT on December 2, 1989, over the Indian Ocean (latitude 3°1 North, longitude 88°6 East). The coronagraph generated ~240,000 images of the solar corona before its demise.

II. INSTRUMENT DESCRIPTION

The SMM coronagraph used a complex arrangement of internal and external occulting elements to block out the light from the Sun's disk and to permit imaging of the Sun's outer corona. We will briefly review the important characteristics here.

The telescope produced an image of the corona with a square field of view extending from $1.6 R_{\odot}$ (solar radii) to $4.1 R_{\odot}$ at the sides and out to just over $6.0 R_{\odot}$ along the diagonals. A sector mirror directed the image of one "quadrant" of the corona to the vidicon detector in each exposure. A nearly full view of the corona could be obtained by rotating the sector mirror through four orthogonal quadrant positions. In the normal spacecraft orientation, the south polar region of the Sun's corona was obscured by the shadow of a pylon supporting the occulting disk assembly. The intensity of coronal features within about 20° of the center of this pylon shadow was greatly attenuated. To uncover the south polar regions of the corona, the spacecraft was rolled 90° for a single orbit several times each week. This was done occasionally in 1980 and on a regular basis beginning in 1984.

Images were frequently taken at a high spatial resolution of 6 arc seconds in March 1980 and immediately following the repair in 1984. However, the normal mode of observation produced coronagraph images in low resolution mode, wherein the spatial resolution (pixel size) was 12 arc seconds.

The instrument package contained several spectral filters to meet mission objectives. Most of the coronagraph images were obtained through a wideband filter in the "green" portion of the visible spectrum (half-power bandpass 500 nm - 535 nm). During 1980, images were occasionally obtained through a very narrow bandwidth interference filter (530.0 nm - 530.6 nm) containing the forbidden emission line of Fe XIV. Two coronal mass ejections have been identified in this bandwidth in the 1980 data set and are noted in the event list. Prior to 1987, a limited number of images were also obtained through a narrow bandpass filter (654.3 nm - 658.3 nm) centered on the H α emission line of neutral hydrogen.

Three polarizing filters (with polarization planes oriented at 60° angles) were used to analyze the polarization of the observed radiation, both on a daily basis for synoptic purposes and (when activity warranted) intermittently several times per day.

The "duty cycle" for detection of coronal mass ejections by this instrument during the 1980 operations was quantified by Hundhausen *et al.* (1984) and was based on the average speed of mass ejections through the telescope's field of view. A minimal observing cycle for detection of most mass ejections required that at least one complete set of images in the

four quadrants be obtained during each 95 minute SMM orbit. During the 1980 operations, a selected quadrant was often observed for a prolonged period following a flare alert. As a result, images of the other three quadrants were not obtained. The 1980 duty cycle for mass ejection detection was quite low. Only 28% of the orbits imaged all four quadrants.

With the resumption of observations in 1984, a change of observing philosophy was instituted, and nominal operations included at least one complete set of images from three quadrants (north, east, west) during each orbit. The south quadrant was added to this nominal sequence in August, 1984. The instrument's duty cycle for all years following the 1984 repair was quite high, with complete coverage averaging 78% of the available orbits each year. (Annual values for the duty cycle have been published by MacQueen and St.Cyr, 1991.)

Following the 1984 repair, the instrument experienced sporadic periods of degraded image quality. The degraded images appear to have dark and bright horizontal streaks randomly placed throughout the image. The streaking problem appeared for periods ranging from a few minutes to several weeks, and the effects on identification of features such as mass ejections ranged from minor to severe. The horizontal streaking was probably caused by an onboard electronics problem; however, no correlation with any operational or environmental parameter was ever discovered. (Photographic examples of horizontal streaking in the data are shown in upper right photo in Figure 8a on page 25, the lower left photo in Figure 16 on page 41 and in the two lower photos on page 49.)

III. IDENTIFICATION OF MASS EJECTIONS

Hundhausen *et al.* (1984) defined a coronal mass ejection as:

“...an observable change in coronal structure that (1) occurs on a time scale between a few minutes and several hours and (2) involves the appearance of a new, discrete, bright, white-light feature in the coronagraph field of view.”

Those authors note that this definition is virtually identical to that used by Munro *et al.* (1979); however, an additional requirement for the present catalogue has been that these new features should display a predominantly outward motion through the field of view, as in the definition used by Howard *et al.* (1985) in the identification of mass ejections in the Solwind coronagraph. In a few cases (less than 1% of all mass ejections), we observed the addition of new material into the corona in one image only. The material was gone from the field of view in the next available image. It was, therefore, impossible to view outward motion. Of the remaining 99% of identified ejections that were visible in more than one image, none

showed conclusive evidence of coronal material falling sunward. We have noted one event in 1989 that contained suspected prominence material observed to fall back through the field of view. Since all events visible in multiple frames showed outward motion only (except the one prominence case noted), we identified single image events as mass ejections. We have noted in the 'Comments' column if the event was visible in one image only. (NOTE: This is different from the FRONT of a feature being visible in one image only)

Candidate mass ejections for this event list were identified by examination of the data on a video display. Consecutive images were "toggled" (blink comparison) and changes in the corona were (most often) readily apparent to the viewer. Less frequently, images were digitally subtracted pixel-by-pixel from an earlier base image, thereby enhancing faint or subtle changes occurring during the time between the images.

At present, we have not rigorously quantified the brightness threshold for detection of mass ejections. We believe that the instrument sensitivity was generally sufficient to allow detection of enhancements (or deficits) of about 10% above (or below) the pre-event background. A photographic example of a very faint event is given in Figure 20a on page 49. We note that it is most often the apparent outward motion of new features when viewed in sequential images that indicated the presence of a mass ejection.

A small percentage ($\sim 8\%$) of events are listed as multiple-part phenomena. These events are counted as one event in the total number of events for any given year. We used the following guidelines in determining multiple-part events: (i) a succession of ejections occur at or nearly at the same position angle over a period of hours; (ii) multiple, overlapping or immediately adjacent ejections occur nearly simultaneously; (iii) a much smaller ejection occurs in the general vicinity and time as a larger event. There is a degree of subjectivity involved in deciding if ejections are multiple-part or multiple events, and it becomes increasingly difficult to resolve events when activity is high. We note that there are approximately twice as many multiple-part events reported during years of maximum activity than at solar minimum.

The mass ejections listed here comprise a subset of all observable changes in the corona. Assignment of events to any such list involves some subjective judgment, but an entry in this catalogue signifies that at least two individuals agreed that a temporal change in the visual appearance of the corona met our definition of a mass ejection. Those changes not meeting the definition described above have been deemed "anomalies" and have not been included in this listing. In addition, if an event was completely missed (*i.e.* dramatic changes occurred in the corona during spacecraft night or a data gap), it has not been included in

this catalogue but instead has been mentioned in the anomaly listing. (Information about specific coronal anomalies is available upon request.) All SMM coronagraph data have been systematically surveyed twice, and this list is complete as of January 1993.

Detailed tabulation of coronal mass ejections and their properties for the 1980 and 1984 through 1987 observations have been circulated to investigators in the past. The deluge of events in 1988 and 1989 (accounting for more than 70% of the total number of mass ejections observed by SMM) precluded formation of a detailed listing of properties in a timely manner. Instead, we chose to circulate a preliminary catalogue documenting times, locations, widths, and a brief description for each event identified at that time (St.Cyr and Burkepile, NCAR/TN-352+STR, July 1990). The present publication should be considered a "revised and expanded" version of that catalogue which: (1) refines and corrects information in the first catalogue; (2) includes a few additional mass ejections identified since publication of the first catalogue; (3) includes apparent speed measurements where possible (about half of the mass ejections); and (4) includes more precise descriptions of mass ejection morphologies. Detailed information on individual events will be made available upon request.

IV. DESCRIPTION OF THE CATALOGUE

We have included twelve columns of information in this catalogue. The first five columns list the date, day-of-year, time, central location and width. The next six columns list information on the apparent motion of the ejection and are grouped under the heading 'Kinematics'. The last column gives a brief description of each event. Detailed descriptions of the methods and definitions used to derive the information listed in the tables are given below.

A. Date, DOY, Time[UT]

Each page in the event list is identified by year. Within a given year, each event is identified by both the calendar date(s) and the day(s) of year (DOY) on which it was observed. The column 'Time' lists the Universal Times of the first and last image on which the event is visible in the instrument's field of view. If the event spans more than a single date, then the first time listed corresponds to the first date and the second time listed correspond to the second date. In some instances, there is a judgment required as to when a mass ejection begins and ends. More often, the stop time is difficult to determine. We have attempted to list the stop time as the first image in which all outward flow of material from the field of view has ceased. The start time is subjective for those cases when a slow expansion or brightening evolves into a mass ejection. These less certain times are designated

by a ‘~’ or ‘?’ in the listing.

NOTE: A discrepancy was found late in the mission between the spacecraft’s onboard clock and Universal Time. The error was cumulative over the life of the mission and was correctable. Data taken in 1980 had to have a few seconds added to it to correct the times. By 1989, approximately three minutes needed to be added to the image times to correct them. Times reported in our previous catalogue (1990) were not corrected. ALL times reported in this catalogue have been corrected.

B. Central Locations

Mass ejection locations are given as a function of position angle (PA) and are measured in the conventional sense from solar north through east. The central angle (Ctrl PA) has been taken to be the geometric center between the two outermost sides of the identified feature. All position angles quoted in this catalogue are projected onto the plane of the sky. Projection of off-limb, non-equatorial features produces an overestimate of the actual latitude. No attempt has been made to correct for this effect. (See Appendix B of Hundhausen (1993) for a discussion of projection effects.)

C. Apparent Widths

Angular widths were determined by the method described by Hundhausen (1993) and St.Cyr and Burkepile (1990). The position angles of the two outermost sides of a feature were located at the lowest altitude at which reliable measurements could be made (typically 2.0 to $3.0 R_{\odot}$). Measurements were made at a time and height when the features had expanded to their maximum width. Obvious deflections of adjacent pre-existing coronal features have not been included in the width determinations. If the edge of a feature was obscured from view (e.g. by the pylon shadow, or by sector mirror field of view limitations), the position of the outermost visible edge was noted. Widths and central positions of such events are marked with ‘>’ or ‘<’ signs, and have not been included in the histograms.

In most instances, only one central angle and width are denoted for a given event. These measurements always refer to the widest feature comprising that event. Apparent width measurements should be accurate to $\pm 5^{\circ}$ unless otherwise designated by a ‘~’ or ‘?’ . The overestimation of latitudes of off limb features will add to the overall uncertainty of width and central position angle determinations. The resulting histograms of these quantities reflect these uncertainties. No attempt has been made in this catalogue to correct for these effects. A more detailed discussion of projection effects on width and latitude distributions will appear in the future.

D. KINEMATICS

We have attempted to quantify the outward motion of identified features comprising each event. A brief description of the six columns of trajectory information follows.

1. Trajectory Times

The times when the height measurements of a feature were made are given in the trajectory times column. These include only those image times used to construct the trajectory that determined the preferred speed. (Preferred speeds are discussed in the next section.) Trajectory times are a subset of the event times listed in column three. In a number of instances, the ending time in the 'Trajectory Times' column is much earlier than the event stop time. This is due to the fact that material continued to be ejected through the field of view long after the front was gone.

2. Apparent Speeds

Speeds are given in kilometers/second and are apparent speeds as projected onto the plane of the sky. Speeds of off-limb features will be underestimates of the actual value. No correction for projection effects has been attempted. We measured apparent radial distance from sun center in each image. In many events, we were able to measure more than one feature per event. Speeds of all measured features are presented in the tables.

We occasionally made multiple speed determinations for a single feature by taking measurements at different position angles or by excluding from the trajectory one or more less reliable data points. Speed measurements of a single feature varied due to changing acceleration rates and/or non-radial motion. When multiple speed determinations of a single feature were available, we used the following criteria for inclusion in this catalogue: (i) we chose the speed measurement with the highest quality parameter (described below); (ii) if quality parameters were equal, we chose the speed measurement with the most data points used in the determination; (iii) if quality and number of points were equal, we chose the speed measurement nearest the central position angle.

Error bars (typically ± 0.1 to $0.2 R_{\odot}$) were assigned to each data point when the measurements were made and were used in the least squares fitting procedure. Error bar estimates were based on the following: (i) the sharpness of the feature; (ii) the change in position of the occulting disk diffraction pattern between images (reflecting the error in the standard coordinates used to mark the center of the occulting disk and sun center); (iii) the use of images from different sector mirror settings; (iv) the overall image quality (*i.e.* severity of electronic artifacts and horizontal dark streaking); (v) the ability to follow a given

feature from image to image. Most height determinations were made using direct images, but occasionally pixel-by-pixel subtractions from a pre-event base image were necessary to determine the location of faint features.

We have chosen not to report an uncertainty for speed measurements. Although we obtained a quantitative measure of this uncertainty from the least squares fitting of the data, there were other factors involved that added to the uncertainty. Some factors, such as the location of a feature out of the plane of the sky, were impossible to determine. The quality rating (discussed below) indicates our confidence in determining speeds. A 20% uncertainty can cautiously be applied to a speed measurement with an average quality rating (6-7). Lower quality measurements would have a larger uncertainty.

If more than two data points were available, both constant speed (first order least squares) and constant acceleration (second order non-linear least squares) fits were made to the data. In most of these cases, both the constant speed (subscript_1) and the final speed (subscript_2) are listed. The final speed is defined as the speed determined from the constant acceleration fit, evaluated at the final data point in the trajectory. The authors have chosen a preferred speed and indicated it with a '*'. For trajectories with two data points only, the constant speed is the preferred speed by default. If both a constant speed and a final speed from a second order fit were available then the preferred speed was chosen by a visual inspection of the trajectory fits to the data and by a chi-squared analysis of the fits. In most cases, the first order (constant speed) fit was preferred, fitting all the data points well within each error bar. Of the trajectories with three or more data points, the second order (constant acceleration) fit was clearly preferable in ~20% of the cases. Approximately 95% of the preferred second order fits exhibited acceleration.

In some events, a very gradual rise of a feature was followed by a rapid acceleration. In these cases, we have excluded from the fit all the data prior to the acceleration in order to get a better estimate of the final speed. An example of such a trajectory is given in Figure 7a on page 23. There are a few cases of three or more data point fits that list either the first OR second order fit speed. We excluded the second order speed in those cases where data points were clustered together in time, effectively behaving like a two-point fit. An example is shown in Figure 7b on page 23. We excluded the speed from a first order fit in those cases where there was a dramatic acceleration (deceleration), in which case the first order fit was a poor description of the measured trajectory. An example of such a trajectory is shown in Figure 7c on page 23.

We caution the reader against comparing speeds of various features within a given

event. Although the different features pass through the same range of altitudes above the solar limb, they have often been measured at different times during the course of an event. Trajectories of specific events are available upon request.

3. Speed Position Angle

The position angle at which we measured trajectories is given in the Speed PA column. We attempted to measure features near the apparent central axis of the event, but in some cases, we were forced to choose another position angle within the event because of electronic artifacts, clarity of the feature being measured, etc. The reader may gauge our success in this effort by noting the difference between the central position angle and the position angle of the speed measurement.

In most cases, material was moving more or less radially outward from the sun. Whenever possible, we measured features (including non-radially moving material) at a fixed position angle. A small percentage of the time (~13%) we were unable to follow a feature along a fixed angle and for these measurements we have listed the average position angle used, followed by a '+'. Measurements with varying angles do not necessarily indicate non-radial motion of material. Occasionally a feature may have been obscured at a given angle in one or two images by an electronic artifact. For some events, data was only available in different sector mirrors, and no angle containing the event common to both sectors existed. In ~78% of all non-radial measurement cases, the angular changes did not exceed $\pm 5^\circ$. For all cases, only the apparent radial component of the speed is reported.

4. Number of Data Points

The number of data points defining a feature's trajectory is reported in column nine.

5. Quality

The quality of the speed measurements is listed in column ten. This does not refer to the quality of the least squares fit to the data, but instead conveys our judgement of the overall quality of the measurements themselves. Quality determinations are meant to assist the user in the utilization of the information given for either a specific event or for use as a comparision for relating speed information between events. The quality of each speed measurement is ranked from 0 (not measurable) to 10 (a perfect measurement, which does not exist). Milestones on this scale are: 1 - measurement may be possible, but speed would be very unreliable; 3 - poor; 5 - mediocre; 7 - okay; 9 - best. Quality is based on several factors, including: (i) the clarity and sharpness of the feature being measured, and its contrast with respect to the background; (ii) our confidence that a measured feature was

identifiable in sequential images; (iii) motion of the feature between the first and last frames was significantly greater than the error bars of the individual points; (iv) the size of the error bars on the individual data points; and (v) the severity of electronic artifacts and horizontal dark streaking in the images.

6. Feature

The feature column lists the morphological feature whose central position angle, width, and/or speed was measured. In those cases where we were unable to measure the speed of a feature (quality = 0), we have given an explanation for its immeasurability (eg. no clear front). Unless otherwise noted in the 'Feature' column, all speed measurements were made of the outward expansion at the feature's leading edge.

E. Comments

The final column in the table is the 'Comments' column. Here we have included morphology information for all events. A list of morphology types is given in the next section. Photographs of the various morphologies are given in a rogue's gallery beginning on page 25. An analysis of various event quantities by morphology will appear in the future. In addition to morphologies, we have attempted to record the following conditions as they relate to pre-existing coronal structures: (i) superposition of features; (ii) deflections; (iii) disruptions and blowouts. Photographs of these phenomena appear on pages 49 through 53. There is a degree of subjectivity involved in determining conditions (ii) and (iii). We have defined deflections as the azimuthal motion during an event of a pre-existing coronal structure away from the event center. By toggling pre-event and event images, we were able to detect deflections greater than $\sim 3^\circ$. A pre-existing structure was considered to be disrupted if it survived the event but had undergone a 'significant' change to its shape, brightness and/or location. A blowout is defined as the apparent disappearance of a pre-existing structure following the passage of an event.

In reviewing a data set of this size, it is likely that we have neglected to note some event effects on pre-existing structures. In addition, this data is insensitive to deflections perpendicular to the plane of the sky or to effects by events on pre-existing structures far from the limb. For these reasons the total number of deflections, disruptions and blowouts should probably be considered a lower limit to the actual value.

We have also attempted to give the reader any other relevant (usually non-quantitative) information about the event. For example, we may not have been able to measure a speed for an event, but we would include the word "slow" in the comments,

indicating that the speed was <100 km/s.

Major lapses in temporal coverage of more than one orbit (~95 minutes) are also included in the comments column. These "data gaps" are arranged chronologically with respect to the mass ejection entries. No data exists between the times listed in the data gap entries.

V. DESCRIPTION OF APPARENT MORPHOLOGIES

We have attempted to describe the distribution of new material within each mass ejection. We have not followed the classification scheme presented by Munro and Sime (1985) for the mass ejections detected by the *Skylab* coronagraph, nor have we used that of Howard *et. al.* (1985) for events detected by *Solwind*. Those authors characterized each mass ejection as belonging to one of several classes. We note that a variety of morphological features may be present during the evolution of a mass ejection. We have attempted to record ALL of the morphologies seen within each mass ejection.

A morphological scheme is at best highly subjective. Often features do not fall neatly into one category. The shapes of features may evolve as they move outward through the corona or may be altered due to projection effects if they are moving out of the plane of the sky. The classification task was difficult (to impossible) for some mass ejections because: (a) there was poor contrast of the new material with respect to previously existing coronal features, or the vidicon detector background levels fluctuated between images; (b) the material evolved from image-to-image; (c) the new material was poorly placed within the field of view (*e.g.*, electronic artifacts, pylon shadow, or sector mirror boundary); or (d) the event was in a limited number of frames or was interrupted by a data gap. Consequently, some mass ejections are described in this catalogue simply as 'material.'

We have not attempted to quantify our certainty of a feature falling into a given classification. In less certain cases, we have included a '?' or listed an alternative morphology in parenthesis in the comments column [*e.g.* loop/cavity (or mound)]. Morphologies mentioned in parenthesis are not included in any morphology tables or histograms.

Caution should be used when comparing reported morphologies from other data sets. Instruments will vary in their sensitivity and field of view. Different data processing and visualization techniques used in the analysis may favor (or discriminate against) certain morphologies. We note, however, that there exist morphologies common to all coronagraph data sets. It has been noted by Munro and Sime (1985) and others that morphologies may offer clues to the circumstances surrounding the origin and propagation of mass ejections

and their associations with other solar activity. In this spirit, we believe it is important to include the statistics of morphologies in this catalogue. A more extensive report of physical quantities related to morphology will appear in the future.

The following list presents the eleven morphological features identified in SMM mass ejections. Occasionally, features possessed additional geometric characteristics or displayed a high degree of internal structure worthy of record. In order to avoid counting the same feature in multiple morphology categories, we made use of five descriptors to further categorize events. Descriptors are listed following the morphology definitions. For example, a flat-topped, light-bulb-shaped loop/cavity will appear only once in the morphology listing in Table 2 under loop/cavity. In addition, one entry was made in both the light-bulb and flat-top descriptor categories in Table 3. All features were recorded in one of the eleven morphology categories. Thus, Table 2 accounts for 100% of all features mentioned in the 'Comments' section of the mass ejection catalogue. Morphologies and descriptors are listed below according to their relative frequency of appearance.

MORPHOLOGIES

LOOP/CAVITY — We propose that the appearance of the well-known "frontal loop" in a mass ejection is actually evidence of "a loop and trailing cavity" since the region immediately following the loop is (by definition) fainter than the loop. In fact, this "cavity" along the back edge of a "loop" is frequently better defined than the leading edge of the loop. Unless otherwise noted, we interpret frontal loops to be composed of coronal material. We have attempted to distinguish between "outer" versus "inner" loops, and if multiple loops are present, we have attempted to note whether they were "concentric" or "overlapping". Multiple loops/cavities accounted for 12% of all loops.

CORE — It is not uncommon to detect a bright central region (often amorphous) in the dark cavity trailing a front. We have defined this material to be a core. By definition, a core indicates the presence of a cavity to distinguish it from the front. A core is never the leading feature. Cores are almost exclusively associated with the loop/cavity morphology.

CLOUD — Clouds are faint, amorphous distributions of new material, spanning several tens of degrees in width. Clouds usually have a hint of a curved front and may be thought of as ill-defined mounds.

GENERIC MATERIAL — We have used this classification to refer to complex, very ill-defined features that do not fall into any one category.

MOUND — The tops of mounds often have a well-defined, curved appearance similar

to the frontal loop, but there is no obvious decrease in brightness behind the leading edge (*i.e.*, no apparent cavity). In a few instances, we detected cavities or bright cores embedded within a mound, but most often, a mass ejection with this classification was featureless. Note that digital subtraction (differencing) of successive images of a mound or filled front could falsely lead to a “loop/cavity” classification. The photo in the upper left corner of Figure 11a on page 31 is a differenced image of a mound that could be mistaken for a thick loop followed by a cavity. It was clearly visible in direct images as a mound and was recorded as such in the morphology table. Direct images should be used (or if differencing is necessary, a pre-event base image must be used) to properly classify this type of mass ejection.

CAVITY WITH NO LOOP FRONT — We have detected rarefactions (dark voids) that appear to move through brighter regions (*e.g.*, helmet streamers) of the corona without a detectable frontal loop preceding them. If a front is present, it is not bright enough to be visible above the background corona.

BLOB — These are smaller, often narrow, self-contained regions of new material. Blobs usually have well-defined boundaries and little or no inner structure. They are often seen as part of a larger distribution of new material.

JET — These are narrow (less than $\sim 20^\circ$ wide), featureless appearances of new material and usually have ill-defined fronts, but well-defined sides.

TONGUE — A “tongue” has more-or-less constant breadth and often has a curved shape. Like jets and fans, the sides are usually more sharply defined than the front. Tongues tend to be narrow, but can be greater than $\sim 20^\circ$ wide.

STREAMER EVENT — A streamer event is the disruption or blowout of a pre-existing helmet structure with no obvious ejection of new material or features (including cavities) distinct from the streamer. The helmet streamer maintains its identity throughout the event. Streamer events are often characterized by an initial brightening and/or slow swelling (in both the azimuthal and radial directions) of the streamer. In other cases the streamer elongates outward. Disappearing streamers that exhibited a gradual swelling prior to their ejection are discussed (and termed “bugles”) by Hundhausen (1993).

FAN — Like jets, fans tend to have ill-defined fronts but do have well-defined lateral edges that extend more-or-less radially. Fans vary in width from very narrow to 90° wide.

DESCRIPTORS

PROMINENCE — We have identified a small percentage of mass ejections as

containing "prominence" material. This interpretation is certainly warranted when the material was observed to be bright in images obtained through the instrument's H α emission filter. But in many cases where no H α data exists, the identification of prominence material has been based on the knotty or highly structured appearance of at least part of the new feature(s) in the mass ejection. These "prominence" features differ significantly from the often amorphous appearance of coronal material. Since this is an interpretative description, we have used parentheses with the word "prominence" when we suspect its appearance. We note that the appearance of prominence material occurred more frequently during years of maximum activity.

Since prominences expand and may become more ionized as they move away from the solar disk, they are likely to lose the highly structured and organized appearance that identifies them. For this reason, the number of possible prominence features reported here is probably a lower limit. In addition, we note that most of the features identified as prominences trailed behind a coronal front. This configuration was reported by Hildner *et al.* (1975) and Schmahl and Hildner (1977) in the *Skylab* data set.

CONCAVE-OUTWARD — Concave-outward refers to the geometry (most often 'U'- or 'V'-shaped) that opens away from the sun. (In contrast, most "loops" are concave toward the Sun.) We have resisted the temptation to refer to these as 'disconnections' since there are a variety of interpretations of such features in the literature. Examples have been described by Illing and Hundhausen (1983), Webb and Cliver(1989), and McComas *et al.* (1991). These suspected 'disconnections' certainly fit the criteria for "mass ejection," since they showed apparent outward motion. A number of these structures have been detected in the late stages of a mass ejection.

FLAT-TOP — The term "flat-topped" is self-explanatory. This geometry may indicate the presence of a slow shock as described by Hundhausen *et al.* (1987).

LIGHT BULB — This geometry is almost exclusively associated with the three-part structure of loop/cavity and core. It refers to the "ballooning" of the lateral boundaries of the loop (*i.e.*, the width increases with increasing altitude).

HALO — Although there are several possible "halo" events identified in the listing, we have not observed the morphology described by Howard *et al.* (1982): "a halo of excess brightness completely surrounding the occulting disk and propagating radially outward in all directions from the Sun." Instead, the halo events we have identified are either events possessing very large widths ($> 120^\circ$) or the appearance of multiple mass ejections at several

position angles, apparently occurring nearly coincidentally.

VI. HISTOGRAM AND TABLE DESCRIPTIONS

To complement this catalogue, we provide graphical presentation of several measured quantities tabulated in this publication. For a contextual view of early SMM results and results from other instruments, the reader is referred to other reviews (e.g., Kahler, 1987). The central position and width histograms reported in this technical note do not differ greatly from our original report [St.Cyr and Burkepile, 1990].

Mass ejection totals are tabulated in Table 1. We have included total number of mass ejections, central position latitudes (converted from central position angles), widths, and speed information. We have listed the percent occurrences, by year, of identified morphologies in Table 2 and descriptors in Table 3. All tables appear on page 16.

The distribution of apparent locations of the mass ejections observed by SMM is shown for individual years in Figure 1 on page 17, and for all years combined in Figure 2 on page 18. Here we have plotted the central position latitude of all measured features.

One conclusion is immediately obvious from Figure 1. The events detected in the years of solar activity minimum conditions (roughly 1984 through 1987) are strongly clustered near the Sun's equator. As Hundhausen (1993) has noted, this clustering of mass ejections near the heliographic equator at solar minimum phase can be even more pronounced when viewed in heliomagnetic coordinates (as in 1984). It is only during more active phases of the sunspot cycle that a significant fraction of mass ejections are detected at apparent latitudes approaching the Sun's poles. The composite graph of all years' data (Figure 2) is of course dominated by mass ejections occurring in 1988 and 1989.

The distribution of measured widths for the mass ejections is shown in Figure 3 on page 19 for individual years, and in Figure 4 on page 20 for all years combined. Since there are so few events with widths greater than 120° , we have intentionally truncated the graphs at that value. We do not see appreciable changes in width distributions with solar cycle.

The speed distribution for all measured features is shown in Figure 5 on page 21 for individual years, and in Figure 6 on page 22 for all years combined. Speeds spanned approximately three orders of magnitude (from under 10 km/sec to over 2000 km/sec). Because there are so few features with speeds greater than 1200 km/s, we have chosen to truncate the plot at that value. A detailed discussion of the statistics of mass ejection speeds and accelerations will appear in the future.

TABLE 1: SMM Coronal Mass Ejection ANNUAL TOTALS

YEAR	# of CMEs	Apparent Latitude			Apparent Widths [°]			Apparent Speeds [km/sec]		
		Avg.	Std. Dev.	# Features Measured	Avg.	Median	# Features Measured	Avg.	Median	# Features Measured
1980	169*	-0.3	42.2	227	39	36	210	355	298	135
1984	62	6.0	31.4	69	44	40	68	157	123	43
1985	57	0.5	18.3	60	50	42	60	458	235	39
1986	60	2.6	12.8	65	46	42	63	371	285	62
1987	117	-2.6	22.4	123	44	42	115	262	236	118
1988	379	1.7	33.1	435	52	50	404	322	263	241
1989	507	2.3	38.7	590	45	40	542	410	357	298
TOTAL	1351*	1.5	35.0°	1569	46°	42°	1462	349[km/s]	285[km/s]	936

*includes two events visible only in the narrow bandwidth containing the forbidden emission line of Fe XIV.

TABLE 2: SMM Coronal Mass Ejection MORPHOLOGIES

MORPHOLOGY	Percentage of All Morphologies							
	1980	1984	1985	1986	1987	1988	1989	TOTAL
Loop/cavity	32.4	27.2	26.4	37.8	31.7	28.5	35.3	32.1
Core	15.4	19.6	14.9	23.5	15.8	15.6	16.9	16.5
Cloud	11.8	8.7	11.5	10.2	11.5	14.1	20.1	15.4
Material	9.5	12.0	17.2	12.2	13.7	13.2	8.1	11.0
Mound	11.5	10.9	6.9	5.1	12.0	10.3	7.6	9.2
Cavity (No Loop)	4.6	4.3	5.8	2.0	6.6	4.5	2.6	3.9
Blob	4.3	2.2	2.3	3.1	1.1	3.2	3.0	3.0
Jet	4.6	3.2	2.3	1.0	2.7	3.2	1.9	2.7
Tongue	3.6	0.0	0.0	0.0	0.5	3.9	2.7	2.7
Streamer event	0.3	5.4	9.2	5.1	3.3	2.1	0.6	1.9
Fan	2.0	6.5	3.5	0.0	1.1	1.4	1.2	1.6
TOTAL	100%	100%	100%	100%	100%	100%	100%	100%

TABLE 3: SMM Coronal Mass Ejection DESCRIPTORS

DESCRIPTOR	Percentage of All Features							
	1980	1984	1985	1986	1987	1988	1989	TOTAL
Prominence	7.9	2.2	1.1	2.0	5.5	8.0	7.4	6.8
Concave-Outward	6.2	9.8	6.9	9.2	3.8	5.2	5.0	5.6
Flat-Topped	4.3	0.0	2.3	6.1	2.7	2.1	2.1	2.5
Light-bulb	1.6	3.3	1.1	3.1	1.1	1.2	0.8	1.3
Halo	0.0	1.1	1.1	0.0	0.0	0.5	0.7	0.5
TOTAL	20.0%	16.4%	12.5%	20.4%	13.1%	17.0%	16.0%	16.7%

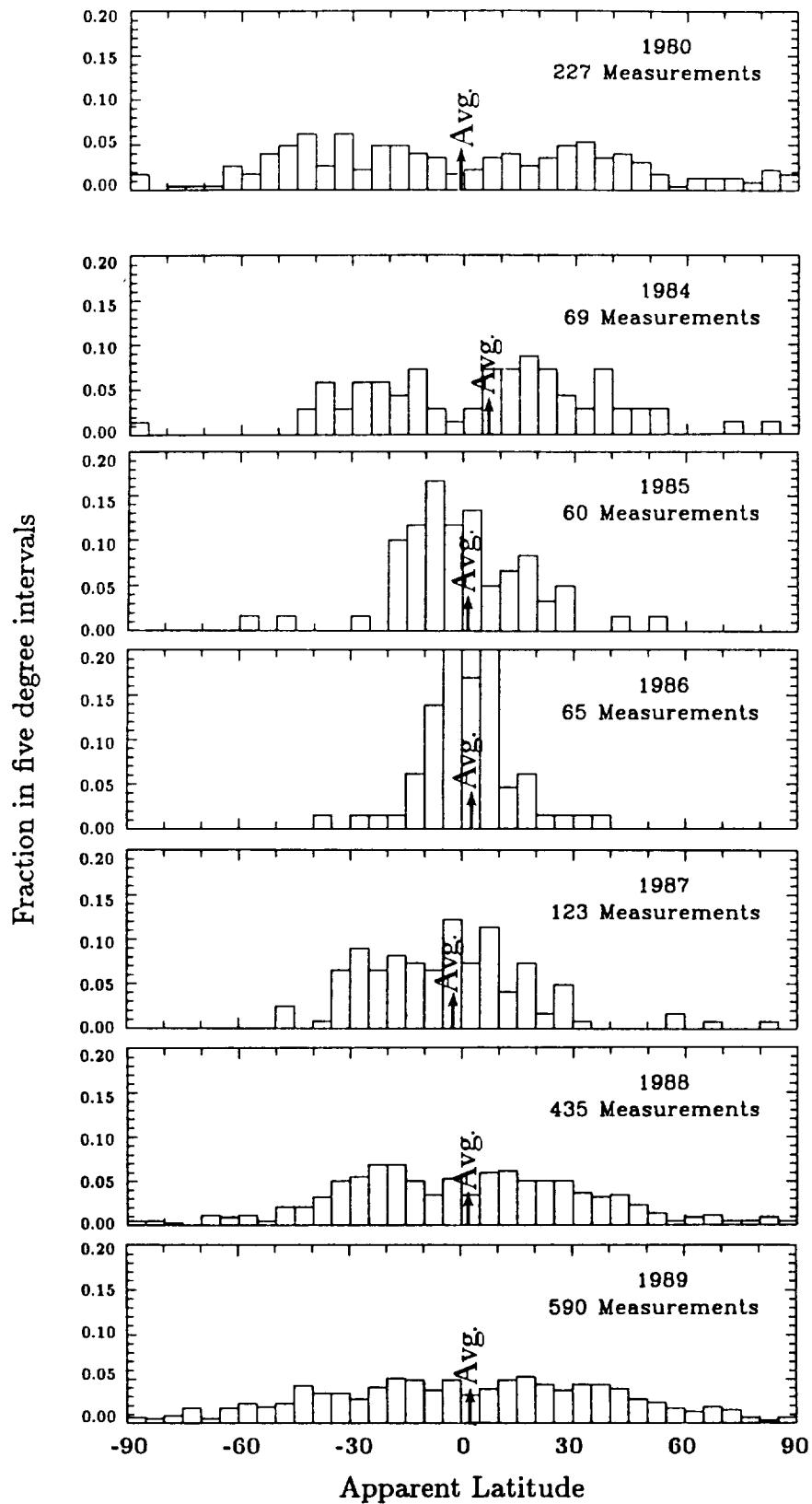


FIGURE 1. Distributions of apparent latitudes of coronal mass ejections from the Solar Maximum Mission Coronagraph/Polarimeter data set. All identified and measured features from each event are included. Average values are indicated for each year and given, along with the standard deviations in Table 1.

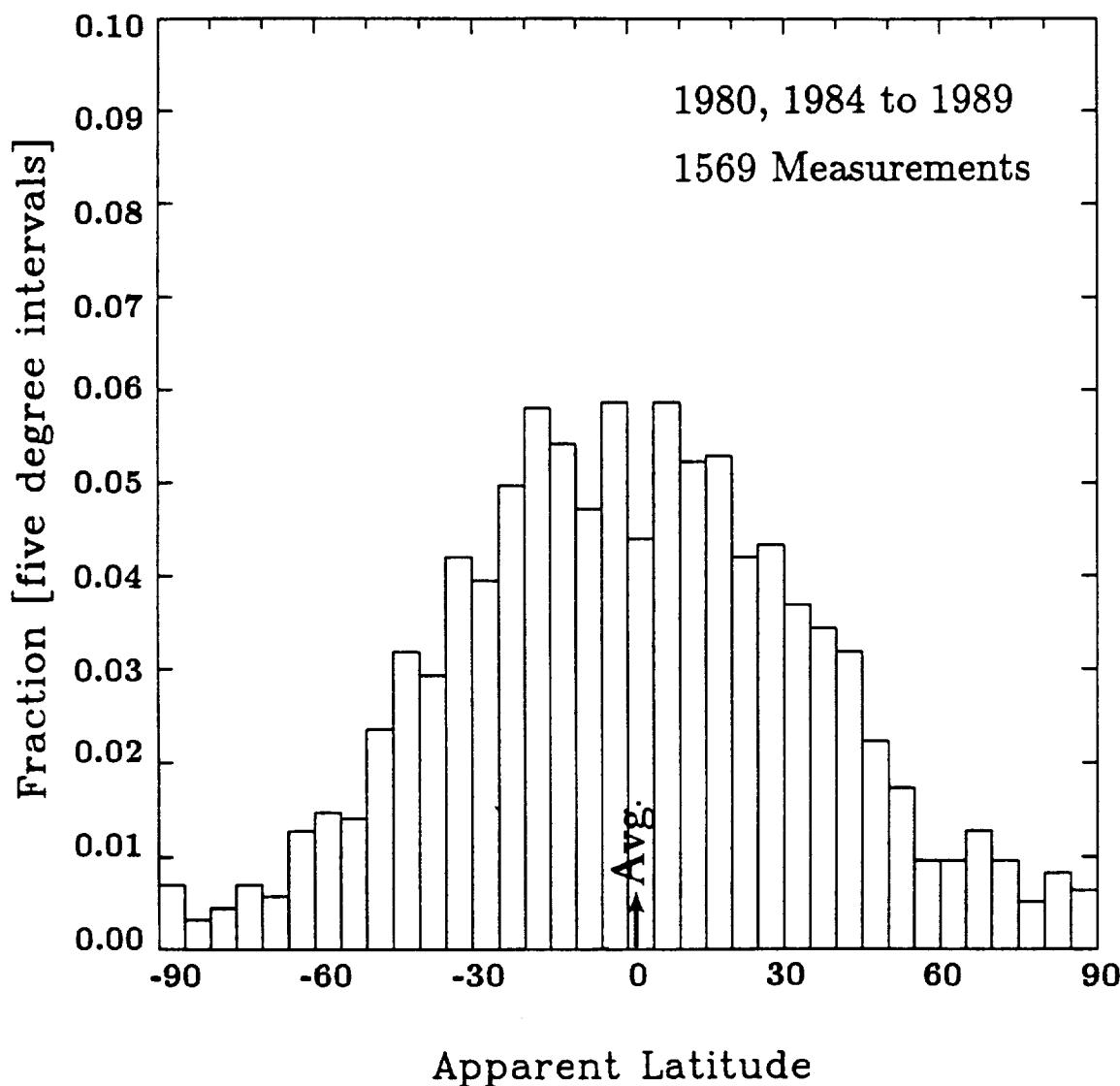


FIGURE 2. Distribution of apparent latitudes of coronal mass ejections for 1980 and 1984 through 1989 from the Solar Maximum Mission Coronagraph/ Polarimeter data set. The average value is indicated. All identified and measured features from each event are included.

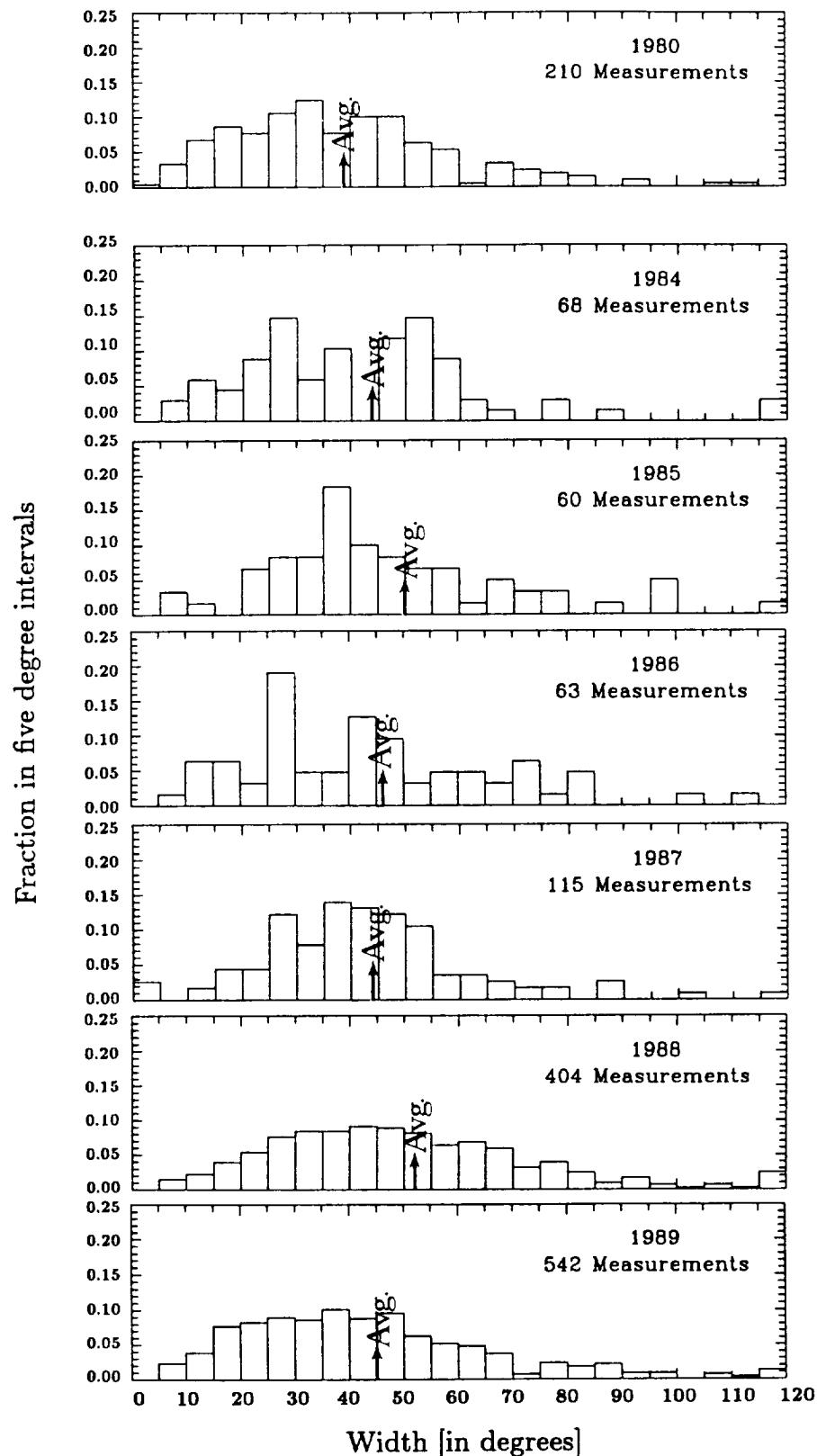


FIGURE 3. Distributions of apparent widths of coronal mass ejections from the Solar Maximum Mission Coronagraph/Polarimeter data set. All identified and measured features from each event are included. Average values are indicated for each year and given, along with medians in Table 1. The last bin contains all widths greater than 115 degrees.

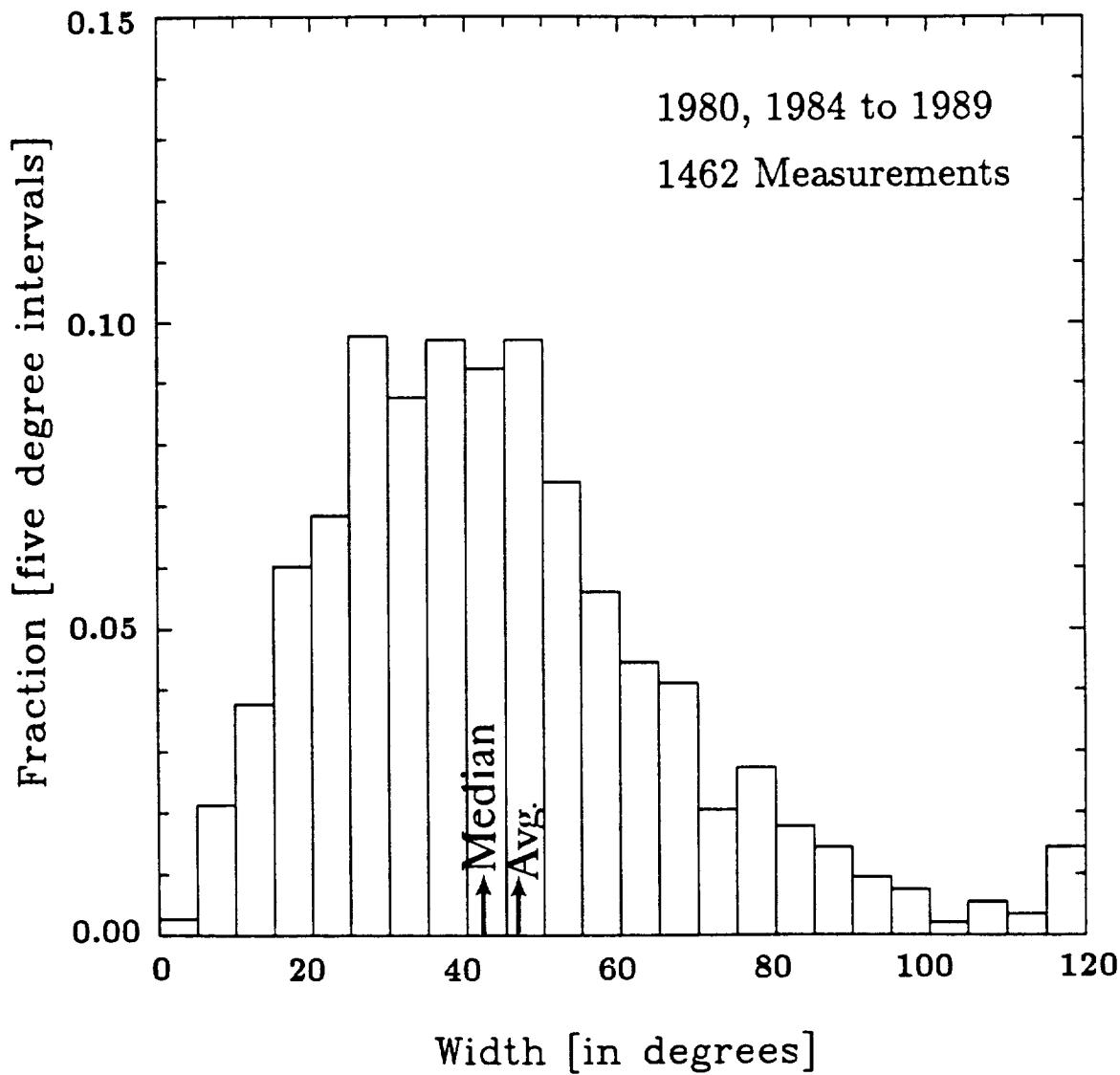


FIGURE 4. Distribution of apparent widths of coronal mass ejections for 1980 and 1984 through 1989 from the Solar Maximum Mission Coronagraph/ Polarimeter data set. Average and median values are indicated. All identified and measured features from each event are included. The last bin contains all widths greater than 115 degrees.

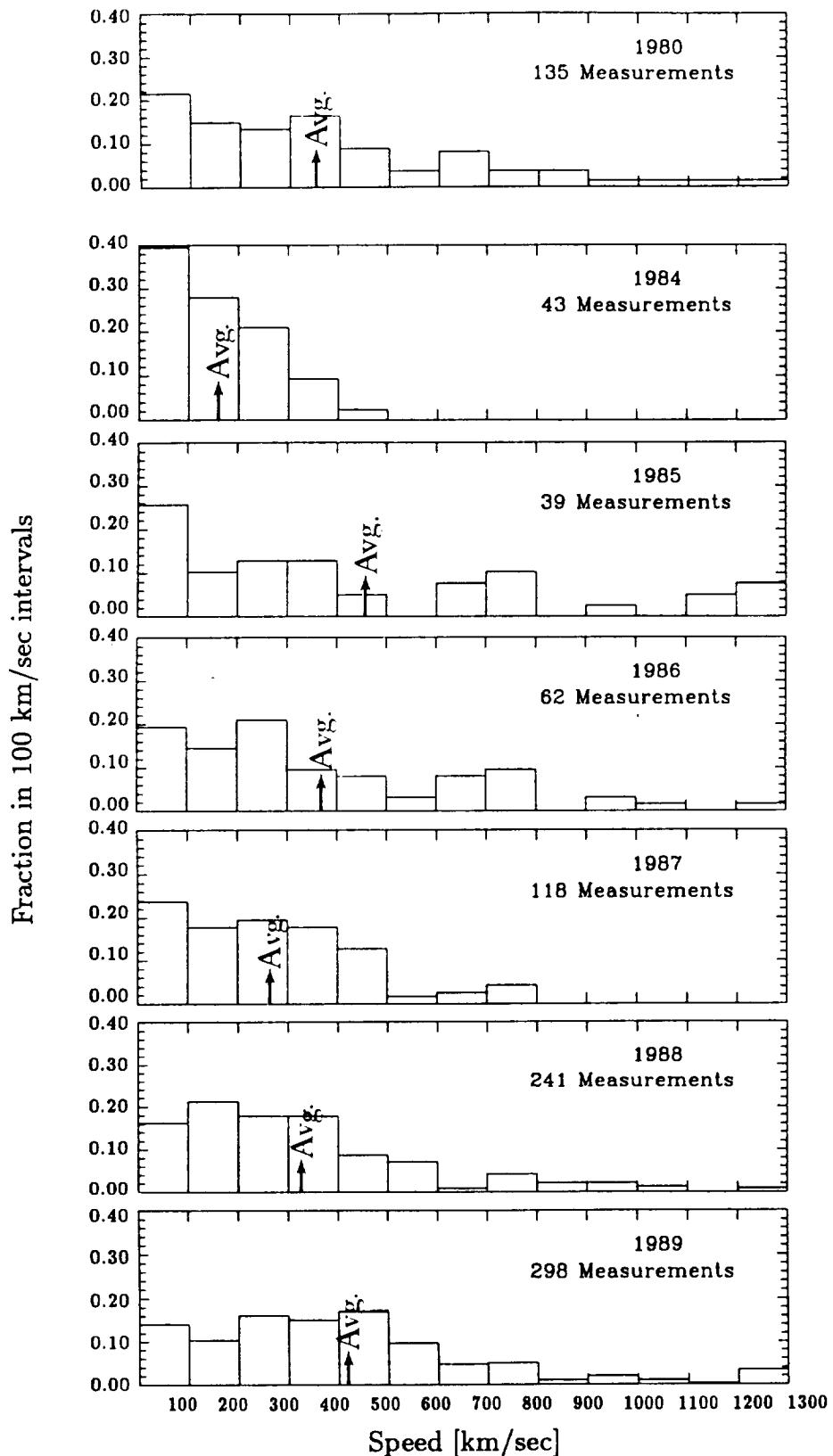


FIGURE 5. Distributions of apparent speeds of coronal mass ejections from the Solar Maximum Mission Coronagraph/Polarimeter data set. All identified and measured features from each event are included. Average values are indicated for each year and given, along with medians in Table 1. The last bin contains all speeds greater than 1200 km/sec.

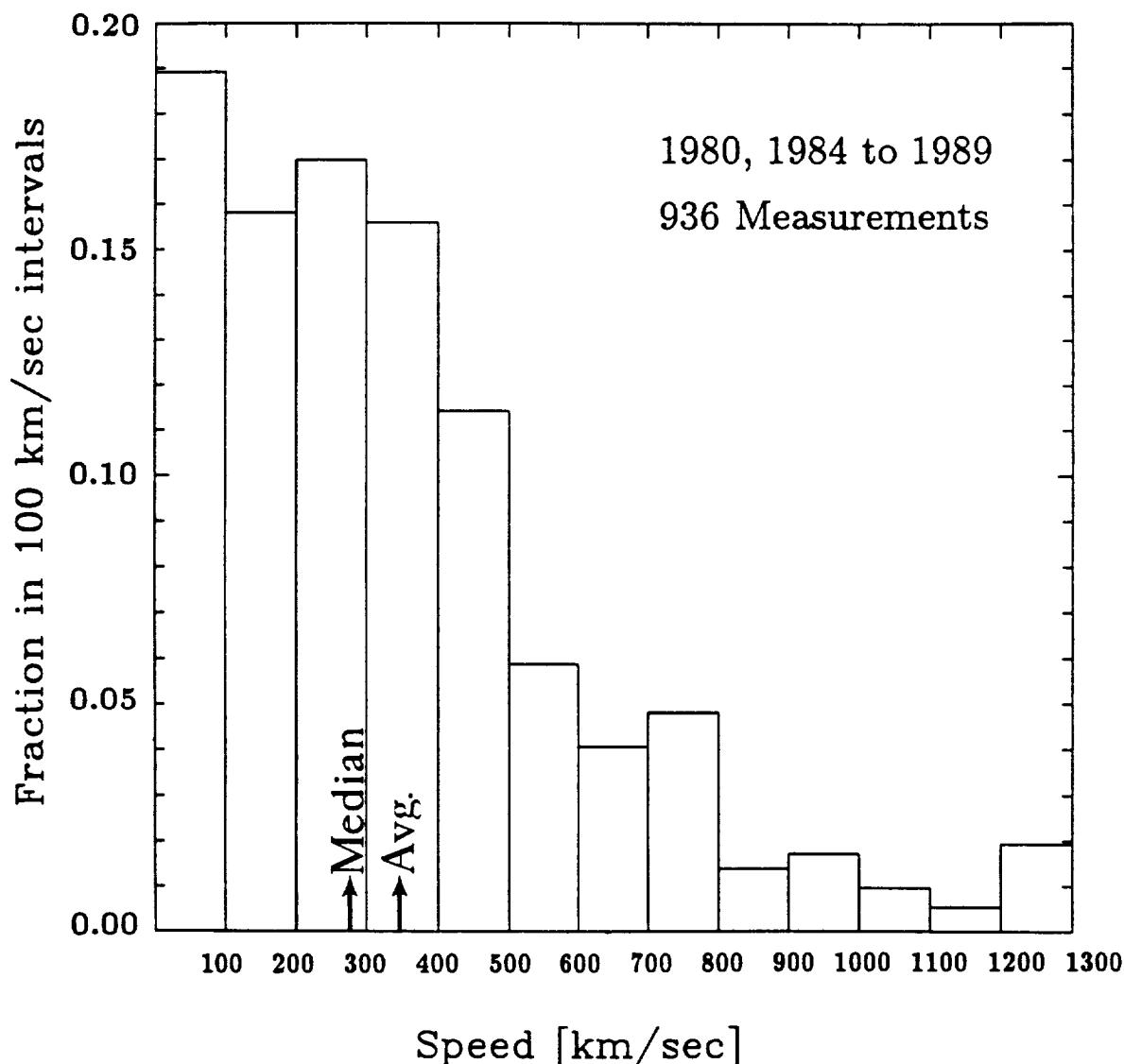


FIGURE 6. Distribution of apparent speeds of coronal mass ejections for 1980 and 1984 through 1989 from the Solar Maximum Mission Coronagraph/ Polarimeter data set. Average and median values are indicated. All identified and measured features from each event are included. The last bin contains all speeds greater than 1200 km/sec.

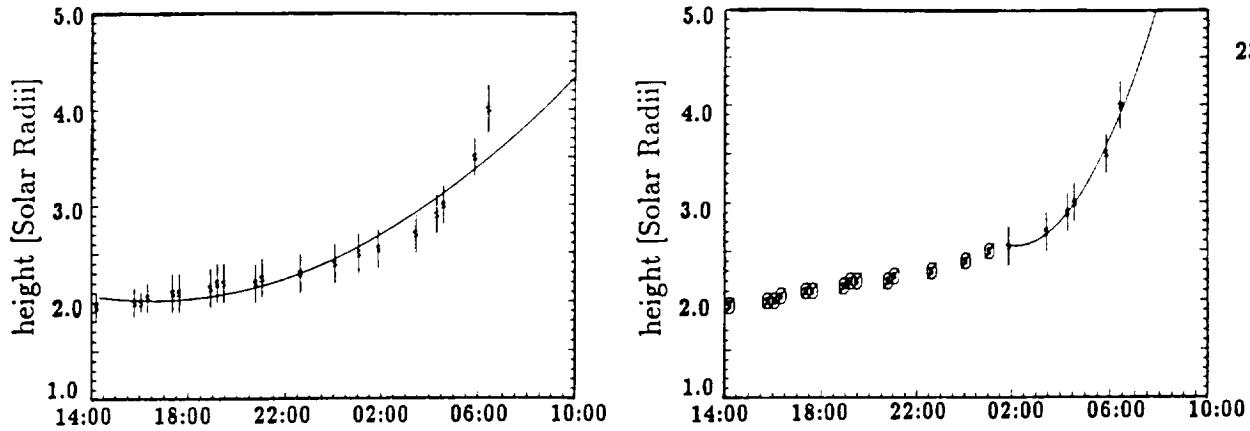


FIGURE 7a. Trajectories of cavity from Jan 9, 1988 at 124 degrees. Due to acceleration late in the event, the early data points were eliminated to get a better estimate of the final speed. The trajectory on the right is the 'preferred' fit.

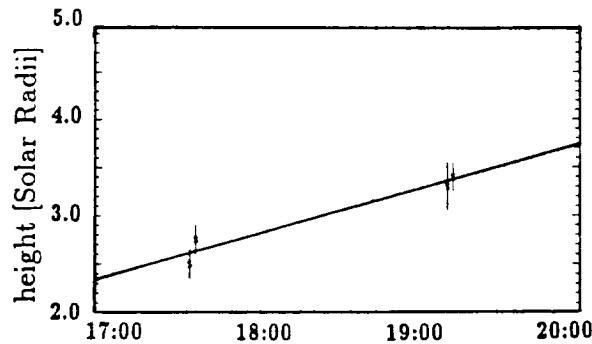


FIGURE 7b. Trajectory of cavity from Jul 16, 1980 at 225 degrees. No final speed from a second order fit was reported for this feature. Although more than two data points were available, the data were clumped in time behaving like a two point fit.

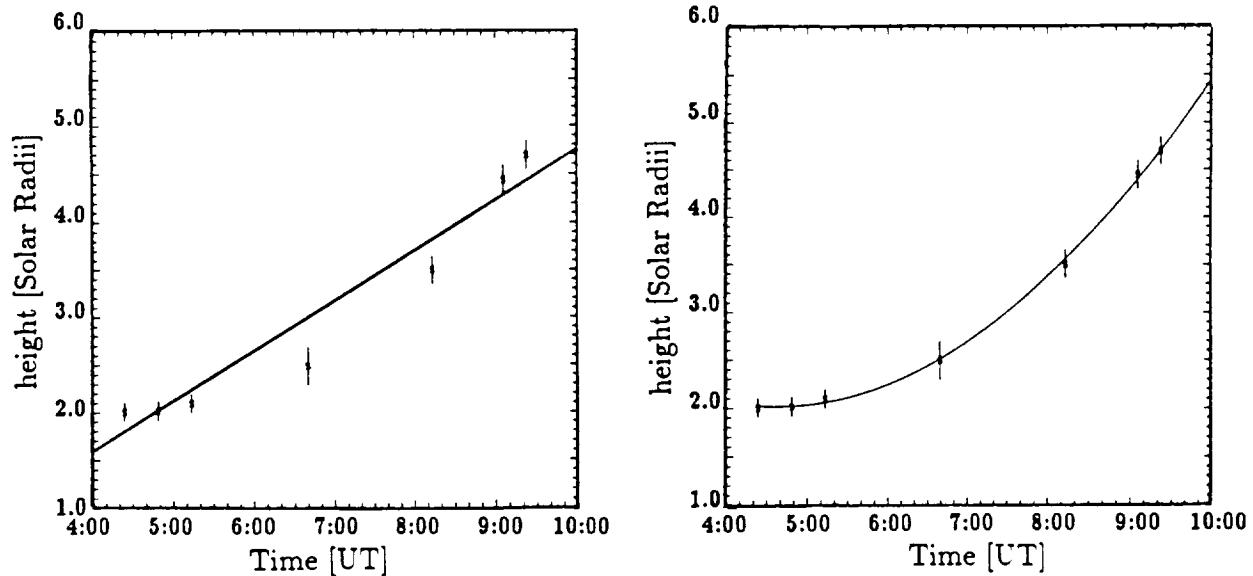


FIGURE 7c. Trajectories of cavity from Jun 1, 1988 at 298 degrees. No first order speed was reported for this feature. Due to acceleration, the first order trajectory (on the left) was a poor fit to the data. The second order trajectory (on the right) is the 'preferred' fit.

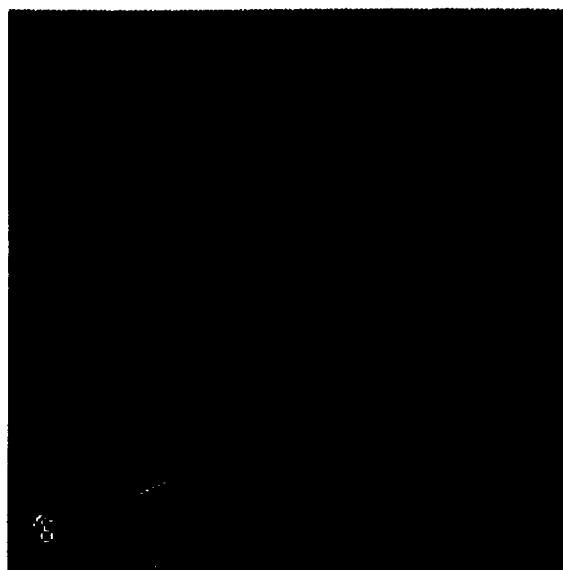
VII. MORPHOLOGY PHOTOGRAPHS

Photographs of various morphologies, descriptors, and phenomena such as disruptions, appear on pages 25 through 53. Unless noted as a subtraction, all pictures are direct images of the corona and are a summation of vignetted K- and F-Corona plus stray light. In subtraction images, the red colored material represents a brightening due to the addition of, or compression of material from the pre-event image time. Blue areas indicate a deficit, or depletion of material from the pre-event time.

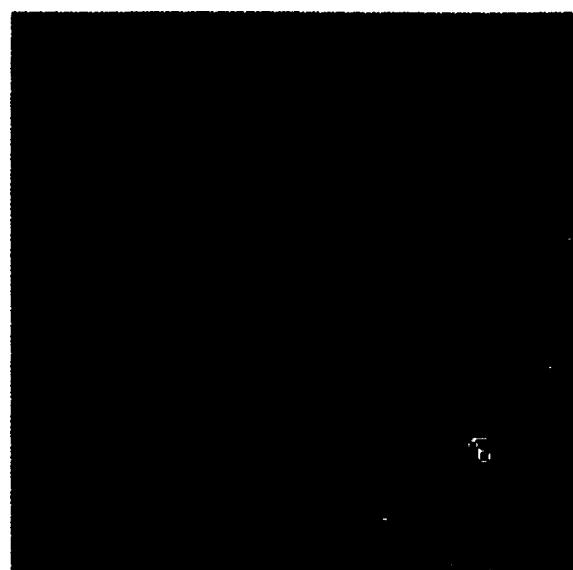
The coronagraph photos are all single sector images with the exception of the halo photograph on page 36. Here, four single sector images have been digitally combined to generate a full view of the corona.

In all images, an arrow indicates solar north, the dotted circle represents the solar photosphere, and the dash across the dotted circle marks the solar equator. The occulting disk obscures the inner corona out to ~ 1.6 solar radii. Some images contain a vertical bar in the center, a diagonal line to the upper left corner, and a black dot in the lower left corner. These marks are electronic artifacts and appear in most of the images.

Additional information on coronagraph images is available upon request.



SEP 14, 1988 SUBTRACTION
04:39 MINUS 01:39

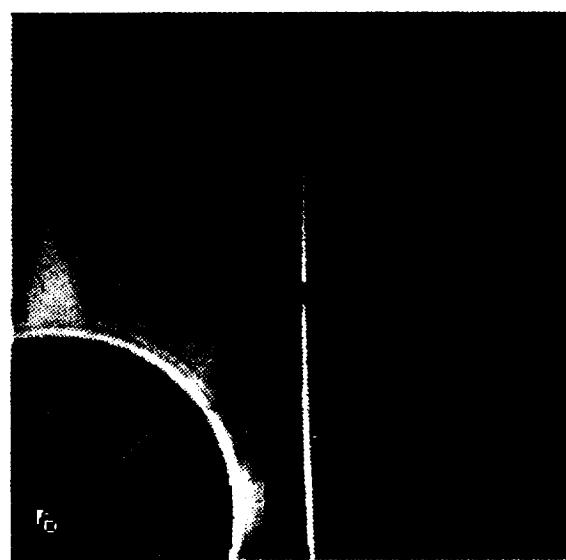


JUN 4, 1989 SUBTRACTION
08:40 MINUS 07:07

FIGURE 8a: Two examples of the LOOP/CAVITY morphology.



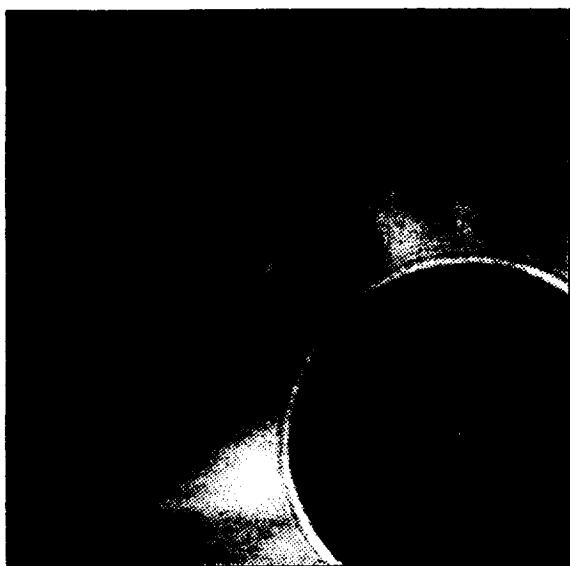
JUN 18, 1980 21:55



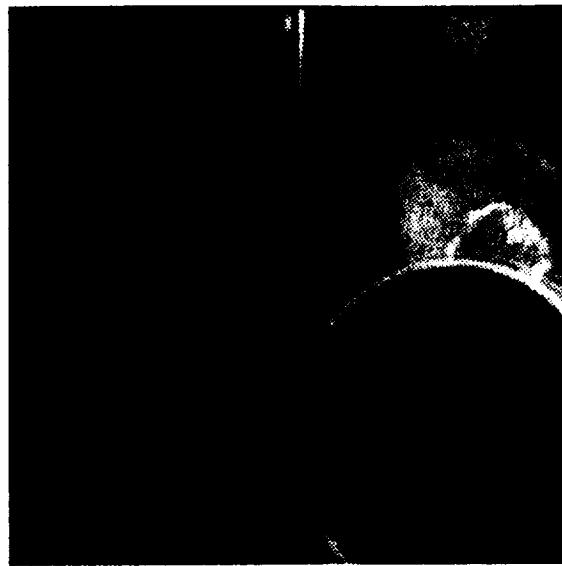
NOV 9, 1988 12:48

FIGURE 8b: Two examples of MULTIPLE LOOPS/CAVITIES .



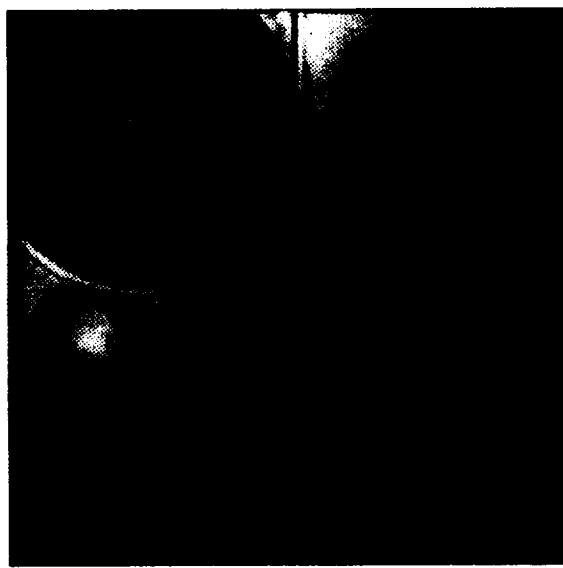


APR 14, 1980 05:44



JAN 30, 1989 02:11

FIGURE 9a: Two examples of a CORONAL LOOP/Inner PROMINENCE LOOP



JAN 19, 1989 01:43



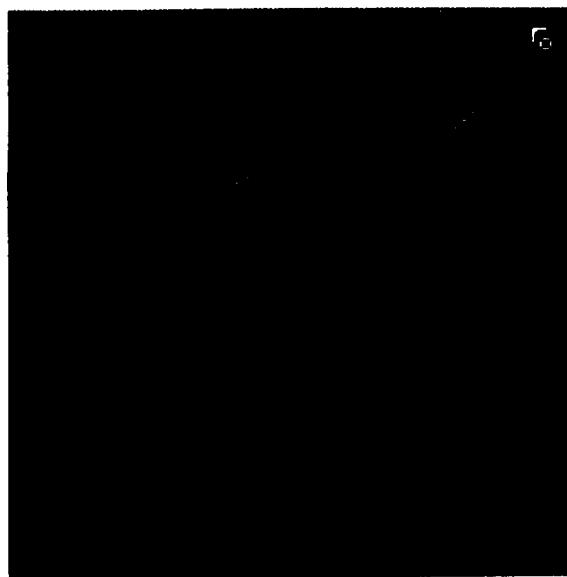
AUG 16, 1989 01:28

FIGURE 9b: Two examples of CORES embedded in the cavity trailing a loop front.

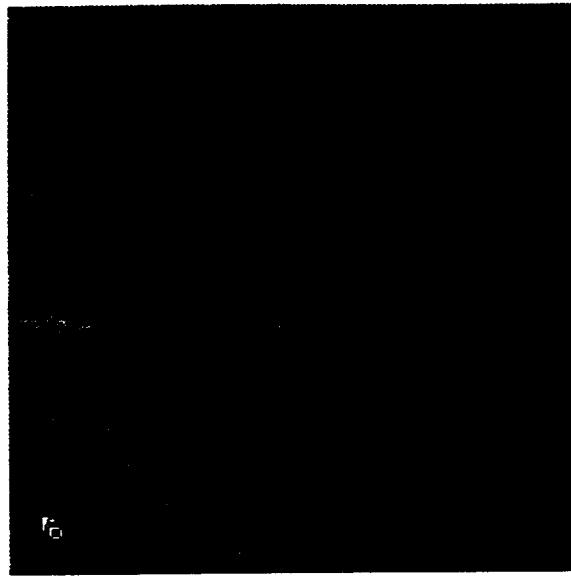
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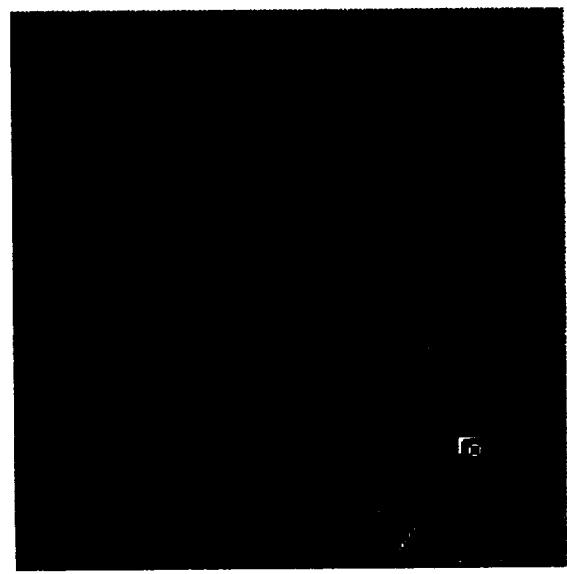


APR 30, 1980 SUBTRACTION
11:52 MINUS 10:21

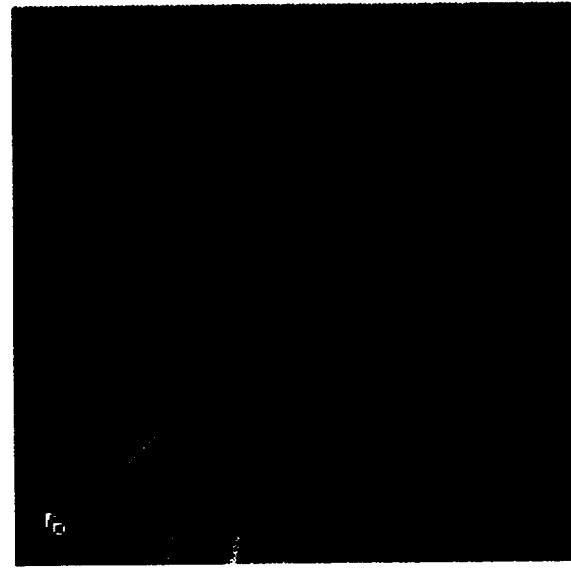


NOV 3, 1986 SUBTRACTION
20:38 MINUS 19:14

FIGURE 10a: Two examples of the CLOUD morphology.



MAR 29, 1980 SUBTRACTION
07:22 MINUS 00:57



JUL 21, 1980 SUBTRACTION
06:12 MINUS JUL 20 20:27

FIGURE 10b: Two examples of GENERIC MATERIAL.

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28 INFORMATIONAL CLASS

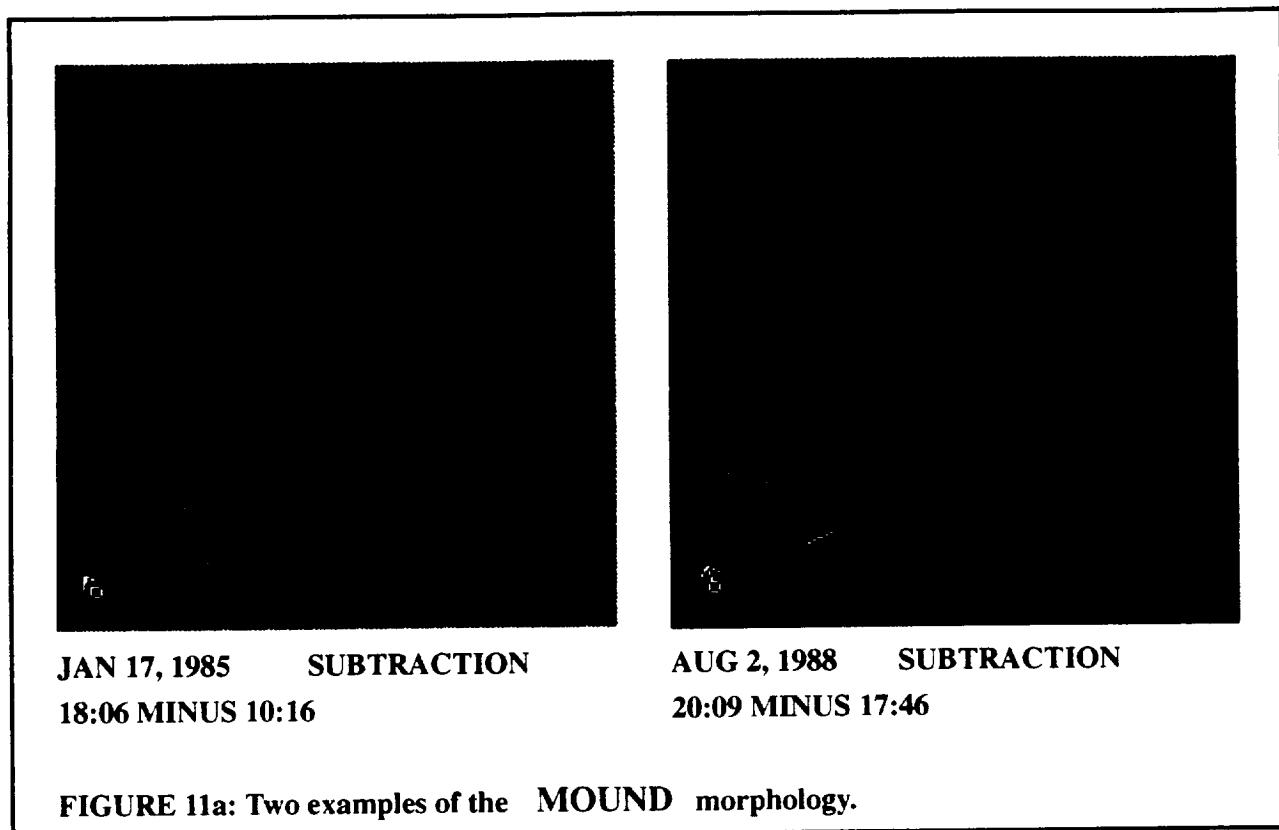


FIGURE 11a: Two examples of the MOUND morphology.

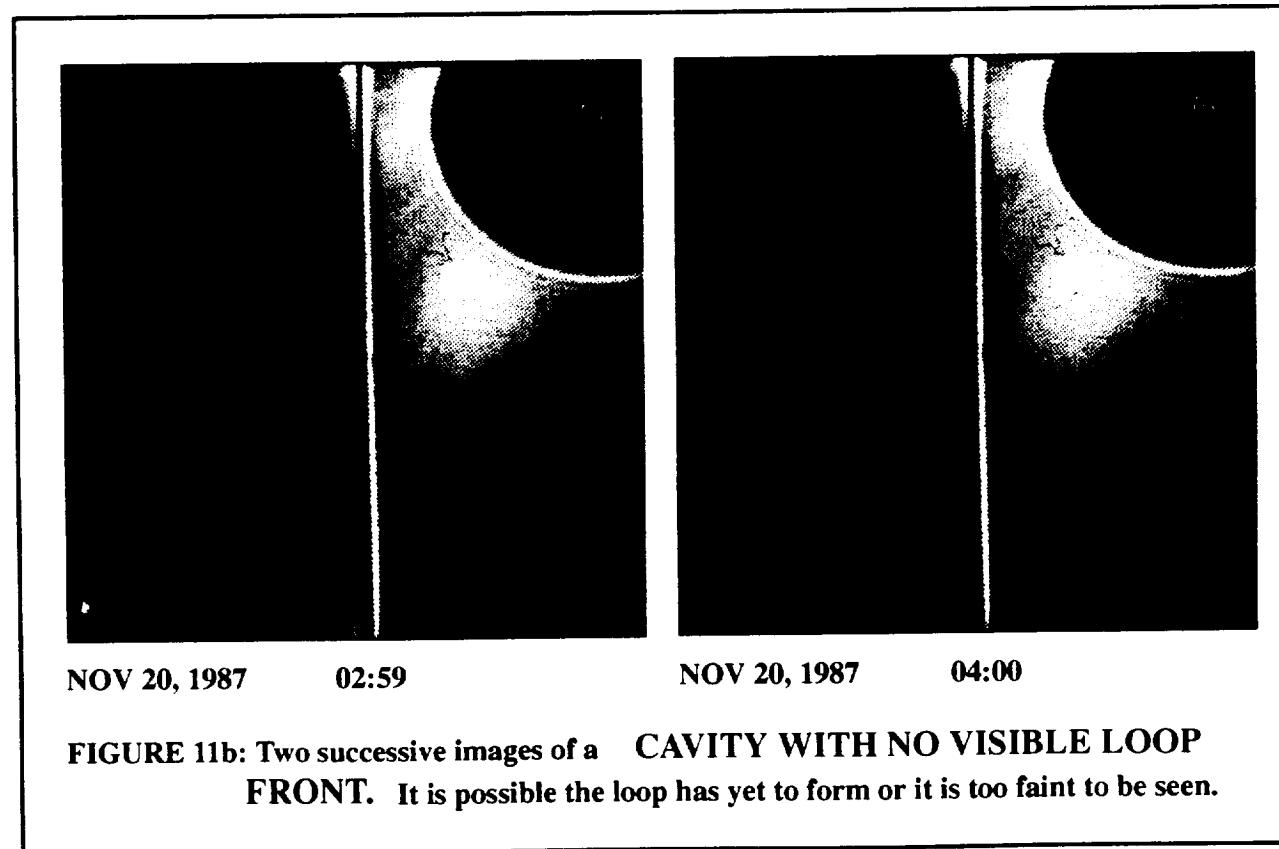
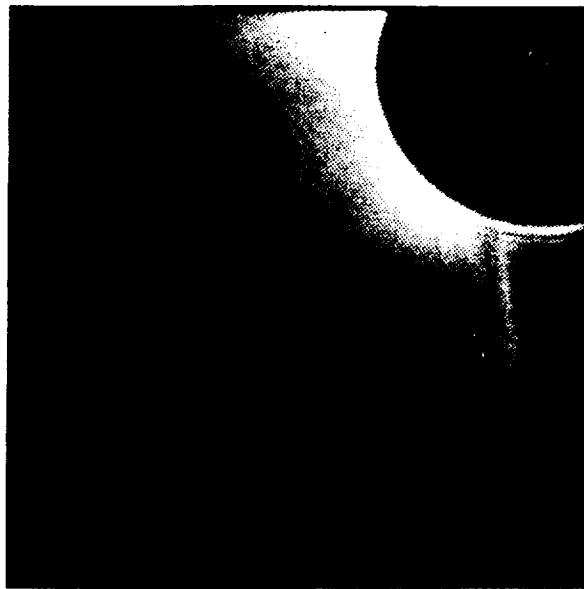


FIGURE 11b: Two successive images of a CAVITY WITH NO VISIBLE LOOP FRONT. It is possible the loop has yet to form or it is too faint to be seen.

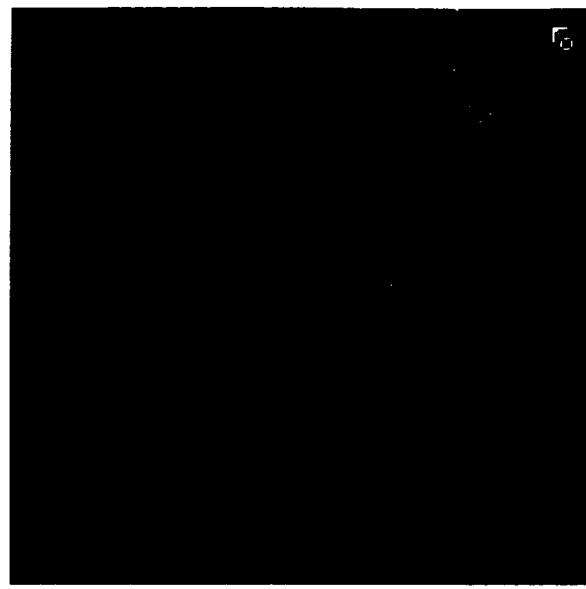
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30 JANUARY 1988

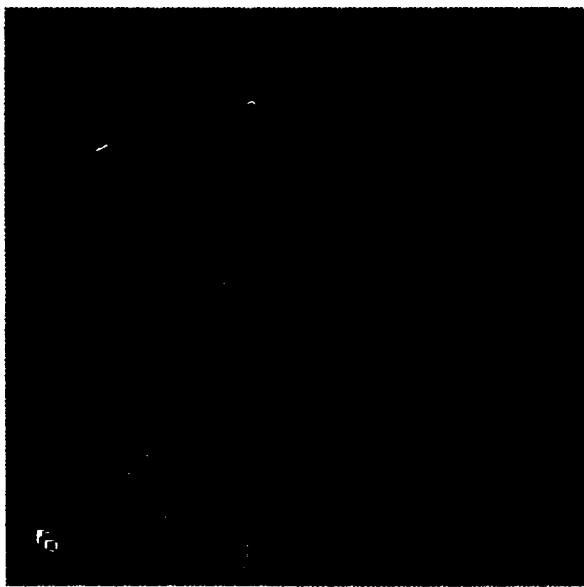


MAR 20, 1980 15:40

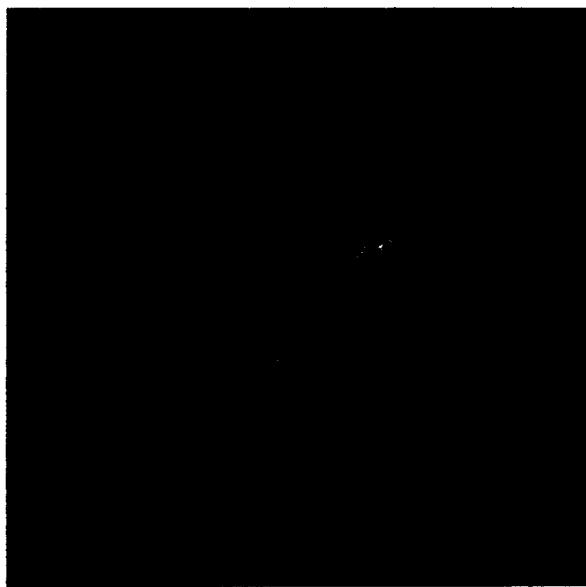


APR 18, 1987 SUBTRACTION
03:57 MINUS 02:23

FIGURE 12a: Two examples of the **BLOB** morphology.



NOV 10, 1986 SUBTRACTION
17:46 MINUS 16:40



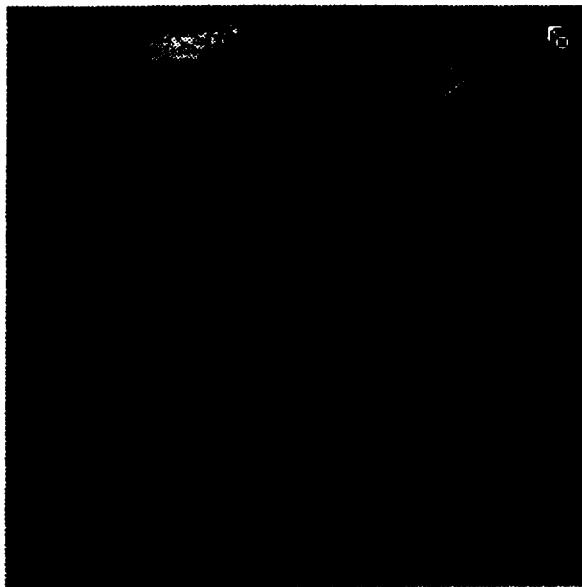
AUG 23, 1988 SUBTRACTION
09:17 MINUS 08:00

FIGURE 12b: Two examples of the **JET** morphology.

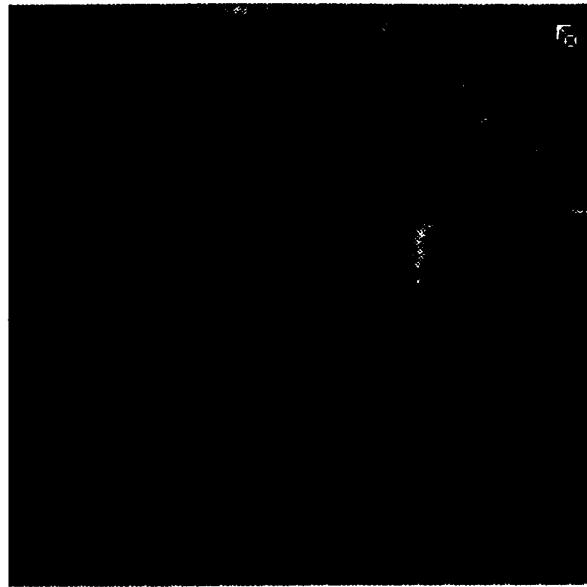
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Page 32 INFORMATION READER

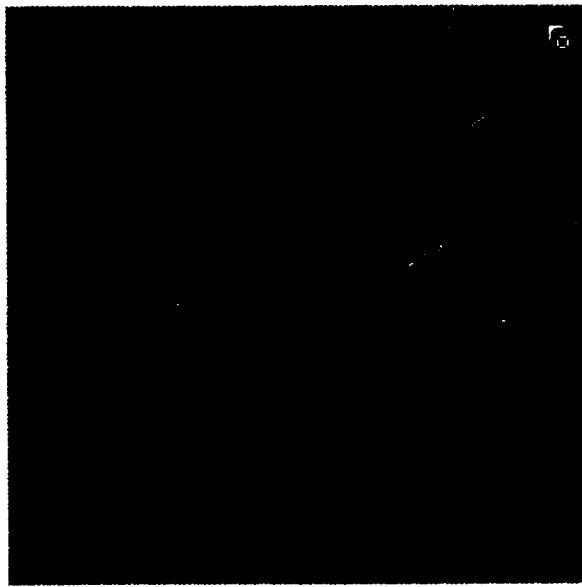


MAY 20, 1988 SUBTRACTION
12:02 MINUS 10:12



DEC 16, 1988 SUBTRACTION
09:06 MINUS 08:33

FIGURE 13a: Two examples of the TONGUE morphology.



OCT 21, 1987 SUBTRACTION
09:40 MINUS 02:21



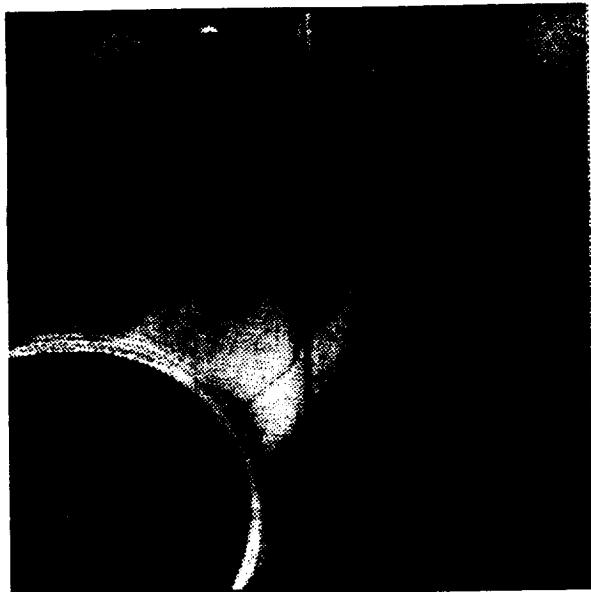
JUL 11, 1988 SUBTRACTION
00:40 MINUS JUL 10 21:32

FIGURE 13b: Two examples of the FAN morphology.

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Film 34 WILHELMINA 3000
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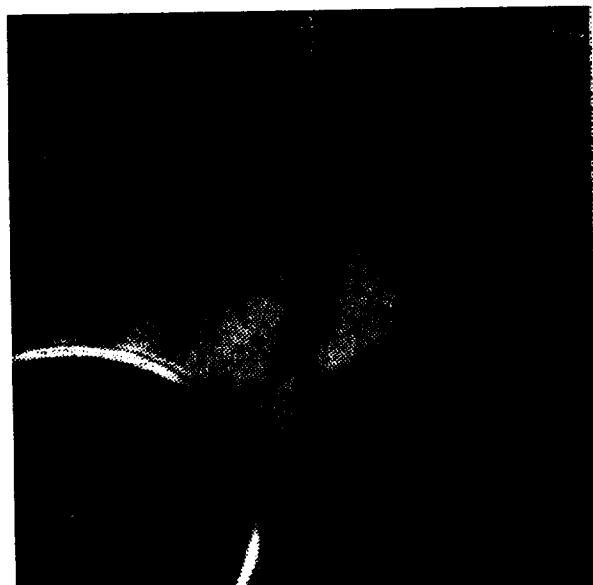




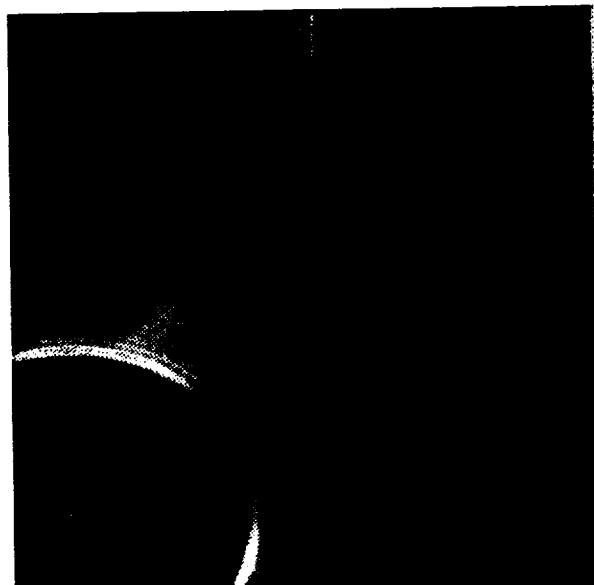
MAR 14, 1985 03:05



MAR 14, 1985 18:30



MAR 14, 1985 21:39



MAR 15, 1985 04:15

FIGURE 14: STREAMER EVENT. The helmet streamer, visible at 03:05 on Mar 14, slowly disrupts and blows out by Mar 15 04:15.

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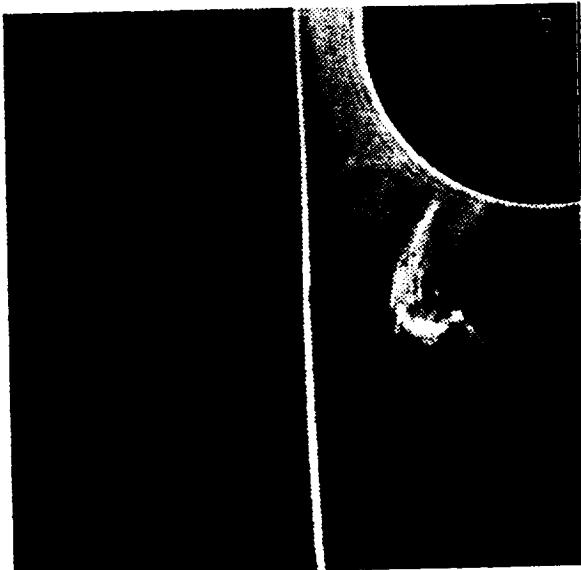
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36 INTERNALLY FLAMED



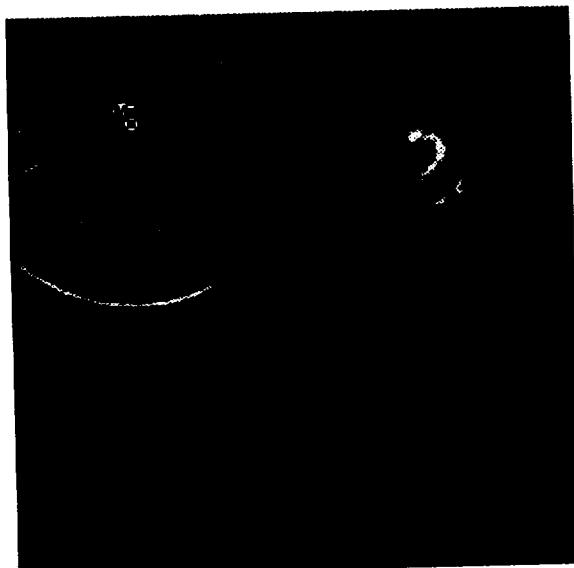
AUG 18, 1980

13:09



FEB 6, 1988

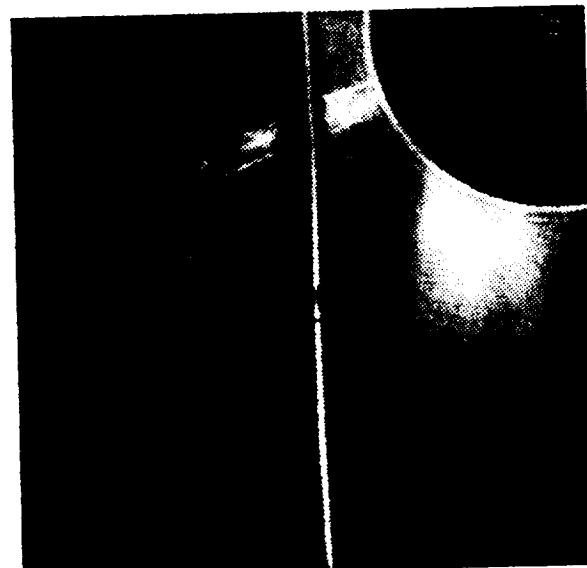
15:30



MAY 4, 1988

SUBTRACTION

06:08 MINUS 04:33



NOV 10, 1988

07:00

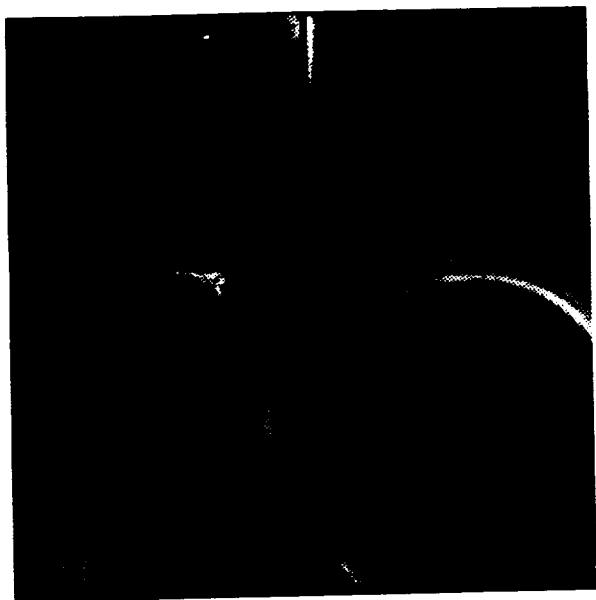
FIGURE 15: A sample of some of the prettier **PROMINENCES** seen by the Solar Maximum coronagraph.

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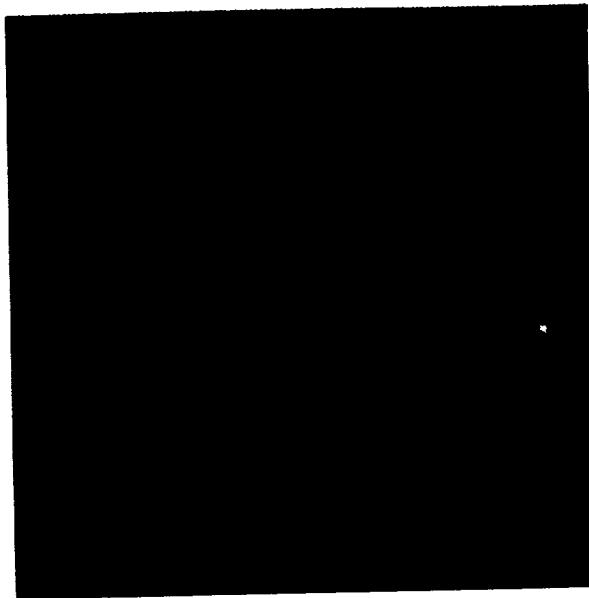
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PAGE 38 INTENTIONALLY BLANK

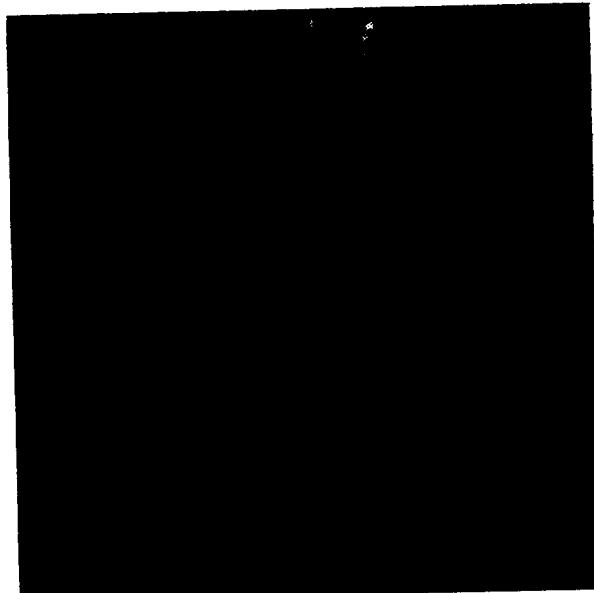




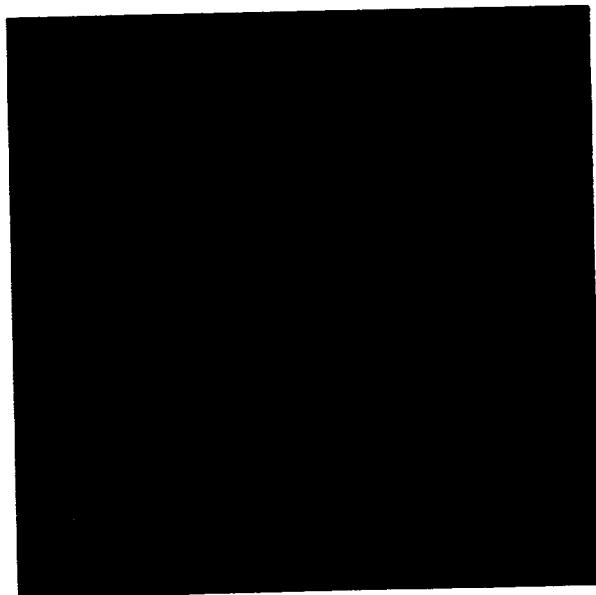
JAN 15, 1989 22:21



MAR 26, 1989 SUBTRACTION
17:56 MINUS 12:00



APR 23, 1989 10:16



OCT 5, 1989 18:21

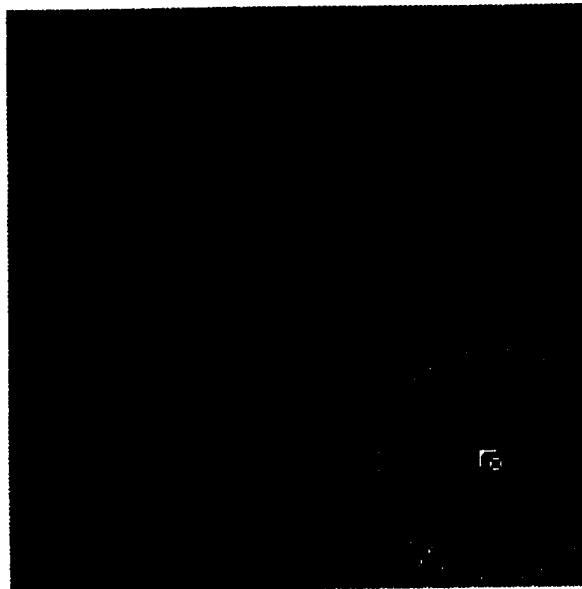
FIGURE 16: More examples of PROMINENCE material.

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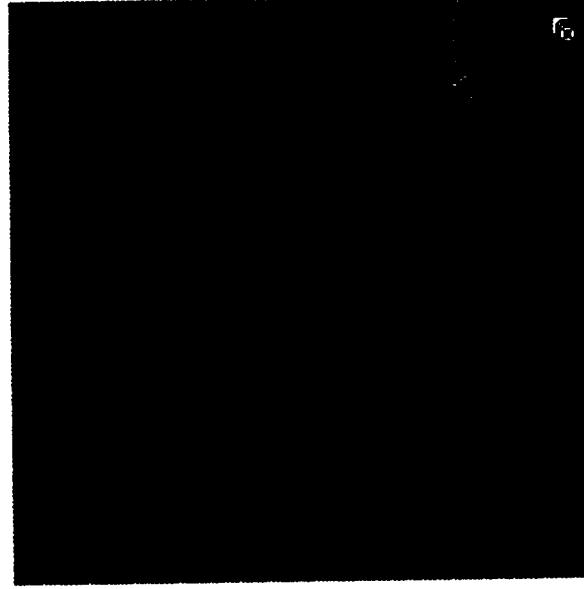
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40
INTENTIONAL ERASURE



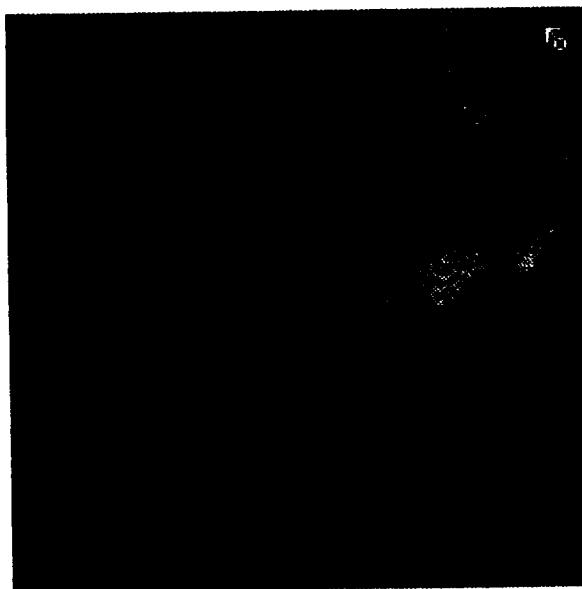


APR 5, 1980 SUBTRACTION
15:45 MINUS 13:48

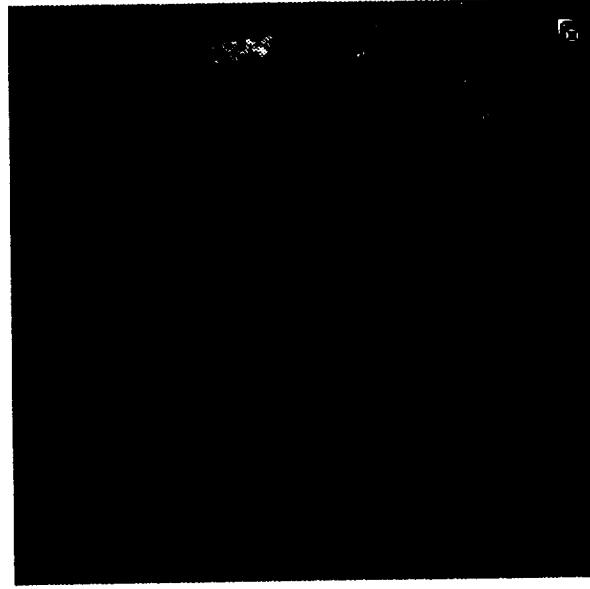


JUN 27, 1988 SUBTRACTION
23:05 MINUS 16:49

U-SHAPED



OCT 3, 1984 SUBTRACTION
03:35 MINUS OCT 2 13:25



JAN 8, 1989 SUBTRACTION
03:43 MINUS 02:53

V-SHAPED

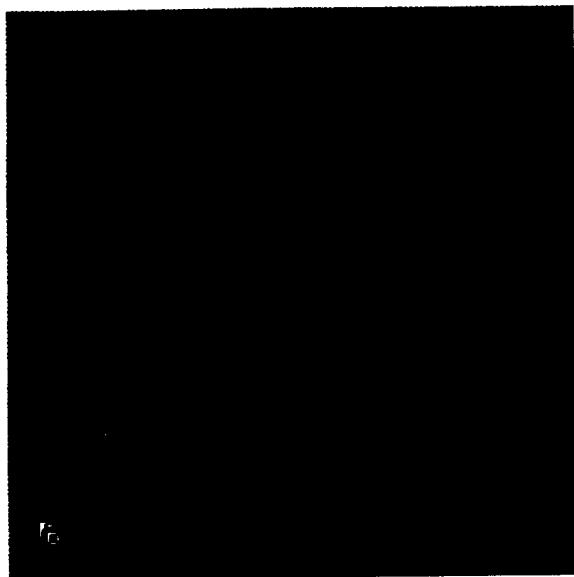
FIGURE 17: Four examples of CONCAVE-OUTWARD geometry.

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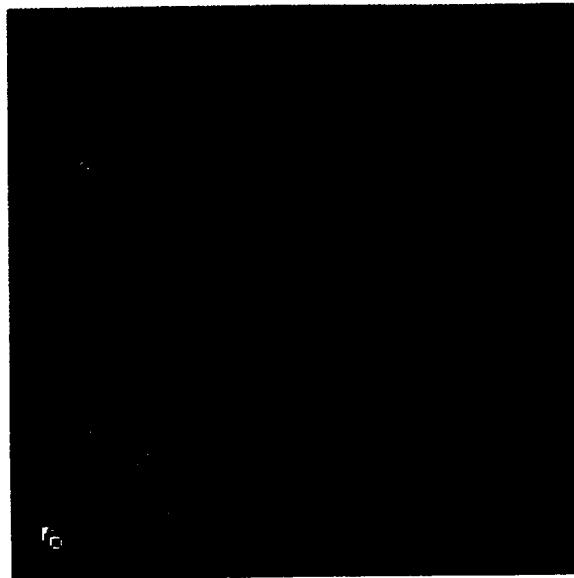
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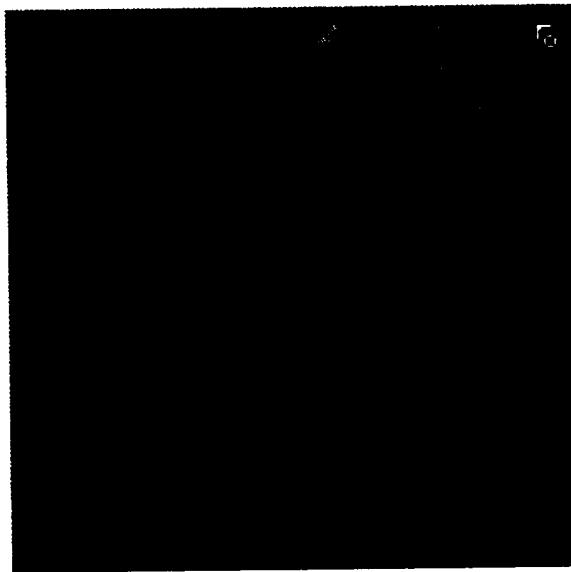


OCT 6, 1988 SUBTRACTION
19:13 MINUS 18:03

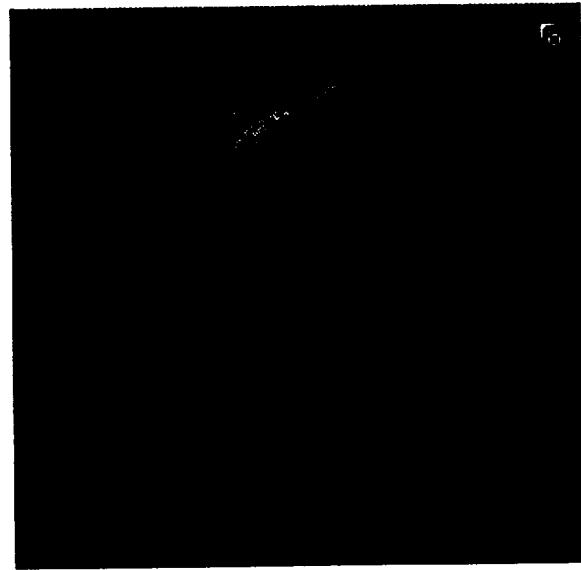


NOV 10, 1988 SUBTRACTION
11:41 MINUS 10:24

FIGURE 18a: Two examples of FLAT-TOPPED features.



OCT 18, 1984 SUBTRACTION
09:36 MINUS 02:21



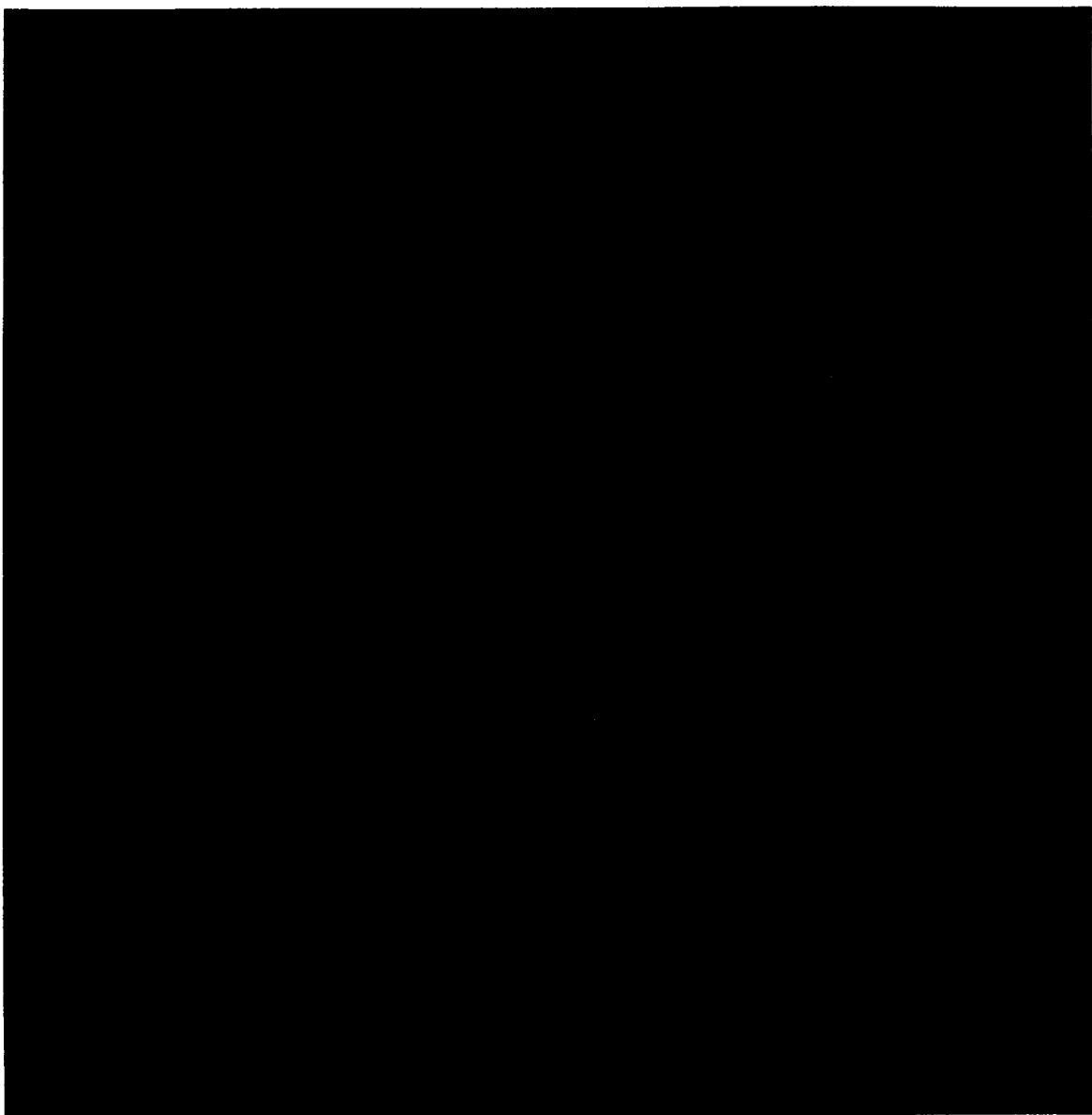
DEC 10, 1984 SUBTRACTION
01:43 MINUS DEC 9 22:34

FIGURE 18b: Two examples of LIGHT BULBS.

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INTERPRETING PLATE BY ERNST MACH IN 1885

44 INTENZIONALI DEDD



MAR 23, 1989

NORTH: 21:19 MINUS 18:12

SOUTH: 21:27 MINUS 18:20

FOUR QUADRANT SUBTRACTION

EAST: 21:43 MINUS 18:37

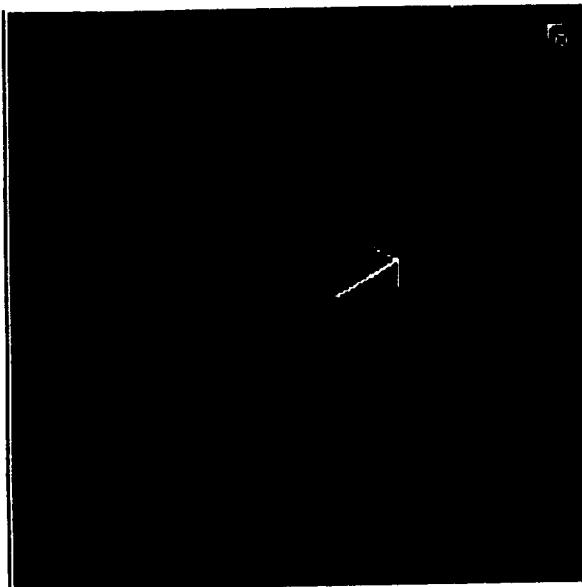
WEST: 21:10 MINUS 18:47

FIGURE 19: Possible HALO. The pylon shadow, in the lower right corner of the image, obscures a wedge of approximately 40 degrees centered on the southern solar pole.

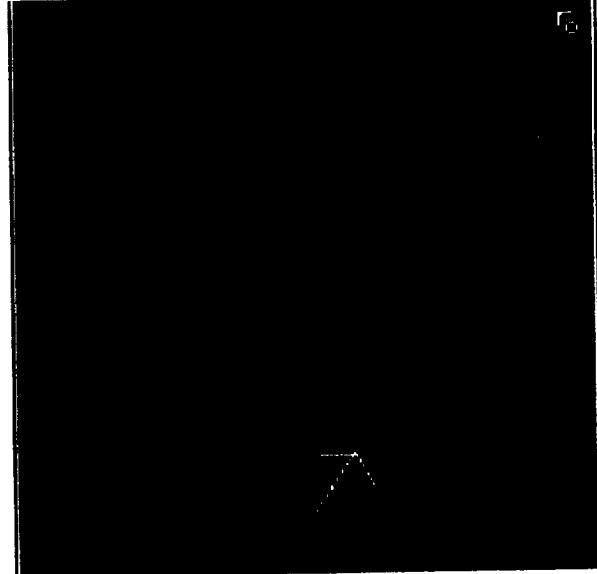
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EINSONIC TRAP

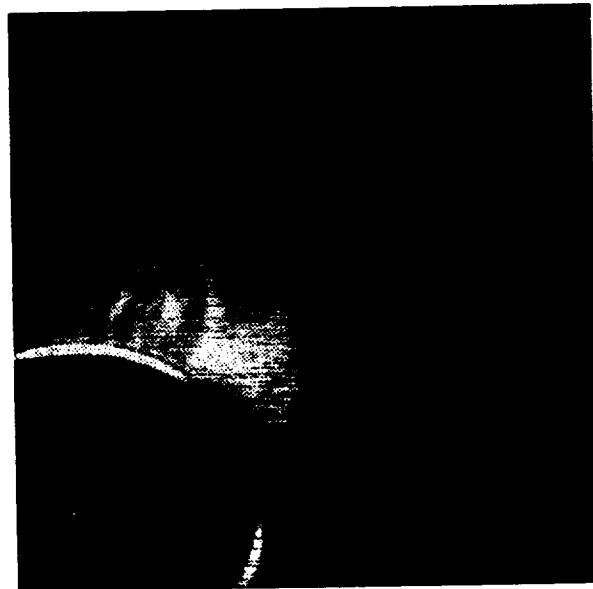


JUN 21, 1980 SUBTRACTION
23:15 MINUS 20:11

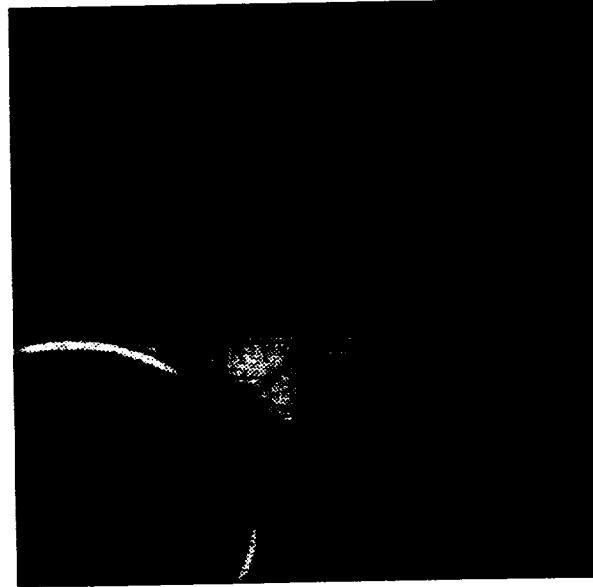


JUN 22, 1980 SUBTRACTION
00:51 MINUS JUN 21 20:11

FIGURE 20a: Two successive images of a VERY FAINT loop front.



OCT 15, 1986 21:17



OCT 15, 1986 22:18

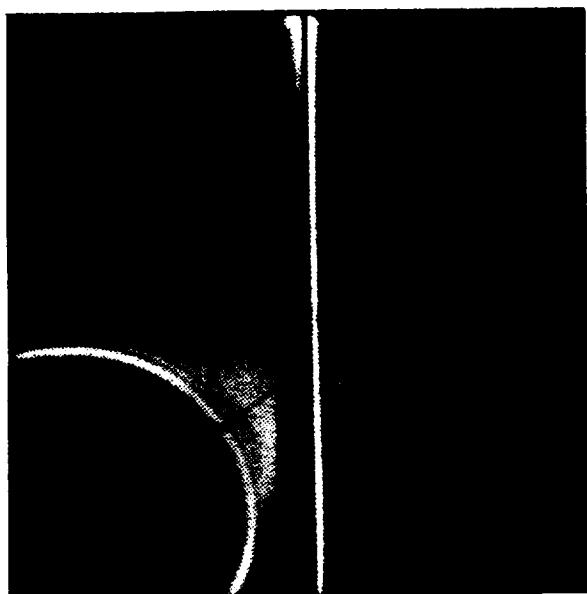
FIGURE 20b: DEFLECTION of a pre-existing helmet streamer by the passage of an event. The streamer was deflected southward between 21:17 and 22:18.

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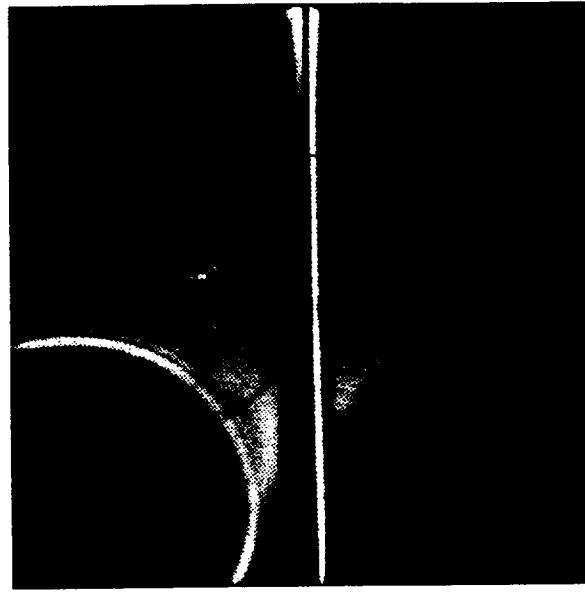
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48 1986 NOVEMBER 20

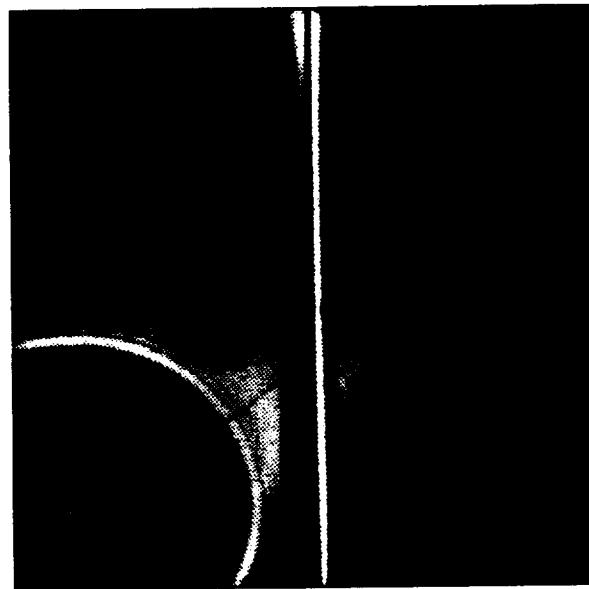




NOV 10, 1987 20:13



NOV 10, 1987 23:14



NOV 11, 1987 00:48

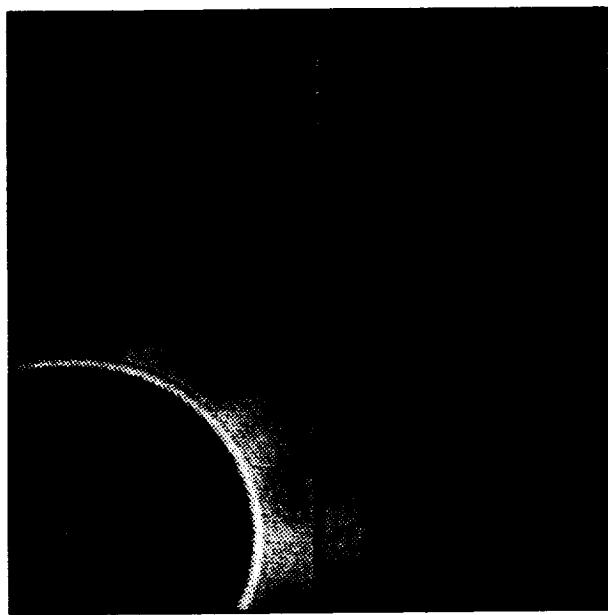
FIGURE 21: PRE-EXISTING STRUCTURES ARE DISRUPTED by the passage of an event. The background coronal material, visible in the image at 20:13, is disrupted by the event at 23:14. Some of the material has been shifted or removed by 00:48.

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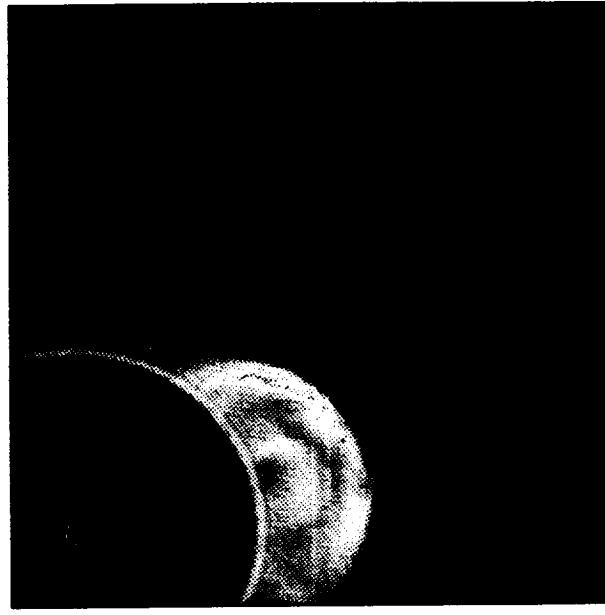
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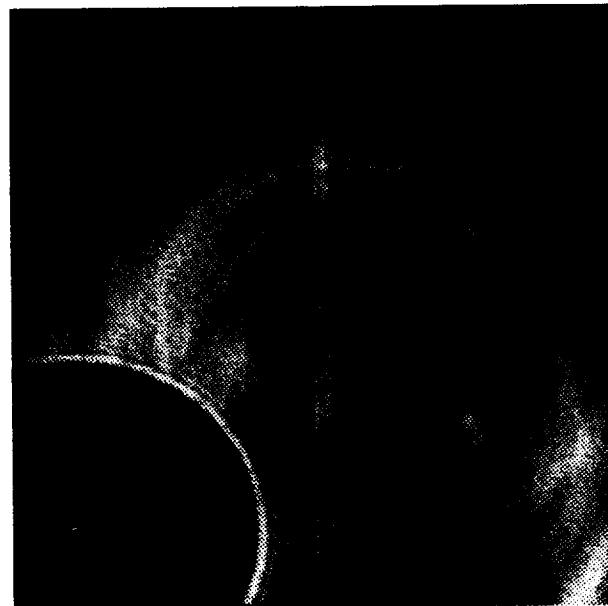




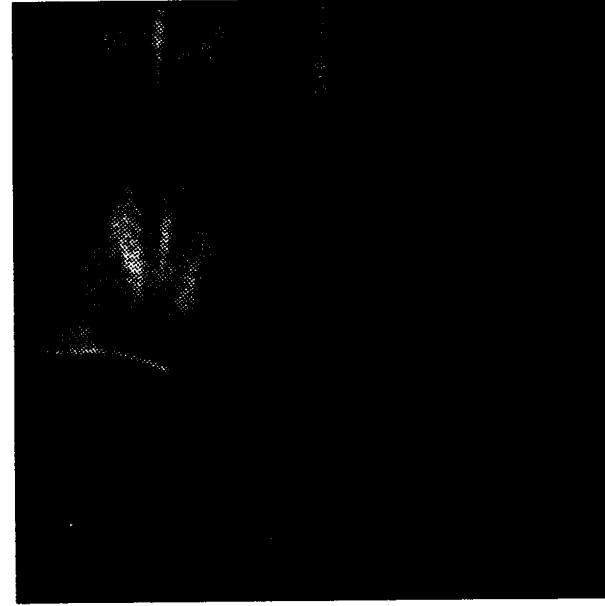
OCT 24, 1989 15:23



OCT 24, 1989 18:09



OCT 24, 1989 18:25



OCT 24, 1989 19:15

FIGURE 22: PRE-EXISTING STRUCTURES ARE BLOWN OUT by the passage of an event. The coronal material, visible above the occulting disk in the lower right center of the image at 15:23, is blown out by 19:15 due to the loop/cavity appearing in the intervening images.

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VIII. NOTE

In spite of significant proof-reading efforts, the authors suspect that any catalogue this size will contain errors. Any researcher wishing to use information contained within this list is urged to contact an HAO representative, so that specific measurements for a given event can be confirmed (and qualified, if necessary) and a suitable context for the event can be described. Such requests may be addressed to:

Dr. A. J. Hundhausen
High Altitude Observatory
P.O. Box 3000
Boulder, CO 80307

IX. ACKNOWLEDGMENTS

We gratefully acknowledge the contributions of the many individuals who designed, constructed, administered and operated the coronagraph and the SMM spacecraft. The HAO data analysis effort has been led by A. J. Hundhausen, the Principal Investigator for the coronagraph. His guidance and active participation in all aspects of the analysis made this catalogue possible. Andrew Stanger has contributed software expertise and continuity to the project, and we are especially appreciative of his fine work. The authors gratefully acknowledge A. J. Hundhausen's and A. Stanger's valuable comments and suggestions on the text.

We recognize the efforts of R. MacQueen and L. House, the former Principal Investigators of the coronagraph. Others who have significantly contributed to the SMM project while at HAO include: R. H. Lee, R. Reynolds, S. Beck, D. Kobe, M. De La Pena, M. Rainey, and P. Reppert. We are very grateful to S. Paswaters and M. Hoswell who independently reviewed the entire data set from 1984 through 1986, discovering over 30 new mass ejections.

Student assistants who have worked on various aspects of the operations, analysis, and archiving since 1984 include: A. Gross, K. Walsh, S. Rosenberg, T. Warner, C. Waugh, S. Paswaters, M. Hoswell, J. Wong, S. Serbicki and M. Dodge. We thank Liz Boyd for assistance in the final preparation of this manuscript.

The SMM coronagraph program was funded principally by the National Aeronautics and Space Administration Contract Number S-04167D.

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XI. CATALOGUE OF SMM CORONAGRAPH MASS EJECTIONS

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INTERNATIONALLY KNOWN

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Date	DOY	Time [UT]	Ctrl PA	Width [deg]	Kinematics					Comments
					PA [deg]	Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	
Mar 07	067	14:31-21:04	106	—	—	—	—	—	0	No clear front
Mar 08/09068/069	21:04-01:35	230	034	Mar 08 21:04:54-21:06:29	8791*	230	2	7	Cavity	DATA GAP: Mar 08 03:22 to 21:01 Flattened loop/cavity superposed on streamer. Deflections.
Mar 11	071	<16:10<20:26	000	030	—	—	—	—	0	Front at 16:10 only
Mar 15/16075/076	<15:36~10:46~120	~053	Mar 15 15:36-19:31	0331*	116	6	6	Cavity	Loop(?)/cavity in 16:10 image only. Legs of loop are superposed on streamers. Deflections.	
			0532	—	—	—	—	—	0	Front at 16:10 only
			0351*	116	7	7	Core	DATA GAP: Mar 11 16:16 to 20:26.		
			0462	122	6	7	Concave-outward U-shape	Mar 11 22:14 to Mar 13 15:36. Mar 13 15:57 to Mar 14 15:36. Mar 14 15:56 to 18:47. Mar 14 23:53 to Mar 15 02:45. Mar 15 03:05 to 15:34.		
			1903*	—	—	—	—	—	0	Front at 16:10 only
										DATA GAP: Mar 11 16:16 to 20:26.
										Mar 11 22:14 to Mar 13 15:36. Mar 13 15:57 to Mar 14 15:36. Mar 14 15:56 to 18:47. Mar 14 23:53 to Mar 15 02:45. Mar 15 03:05 to 15:34.
										Cavity rises slowly in fan. Fuzzy loop becomes visible around cavity. Brighter tongue-shaped core follows cavity. Base of core is concave-outward, 'U'-shaped by early Mar 16. Archetypal (pardon the expression) disconnection from ~06:05 until 10:46 on Mar 16. Fan is partially blown out. Deflections.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Cent PA [deg]	Width [deg]	Kinematics			Feature	Comments
				Time [UT]	Trajectory Times [UT]	Speed [km/s]	#Data Pts	
Mar 20	080	08:11-10:41	013	050	Mar 20 09:11-09:53	6081*	2	Loop
					Mar 20 09:11-09:53	1381*	2	Cavity
Mar 20	080	14:45-18:41	130	005	—	—	0	No obvious front
Mar 20	080	18:43-22:10	228	055	Mar 20 18:43-20:38	282 ₁	235	Loop
						380 ₂ *	19	Thin loop/cavity with structured (prominence?) core superposed on streamer (or fan). Deflections.
					Mar 20 18:43-20:38	292 ₁	235	Cavity
						414 ₂ *	9	
Mar 22	082	04:23~06:19	185?	030?	—	—	0	Front visible for five minutes only. No apparent motion while visible.
Mar 23	083	01:00~09:09	230	035	Mar 23 04:46-06:06	162 ₁ *	235	Outer loop
						186 ₂	5	Outward motion of jet from 01:00 until ~02:54 at 236° followed by a low contrast, broader cavity from ~02:49 until 09:09.
				230	020	Mar 23 04:14-06:06	101 ₁ *	Loop becomes visible around cavity. Well-defined, multiple loops/cavities appear beneath first cavity from 04:46 until ~09:09.
						140 ₂	6	Event is disrupted. Streamer is disrupted. Deflections.
						096 ₁ *	230	Could be three events:
						139 ₂	6	1. Narrow jet east of polar streamer. Possible brightening south of jet. Deflections.
Mar 23	083	02:41-22:25?	02:41-04:23	~020	~008	—	—	2. Jet (or tongue) east of polar streamer. Deflections.
			06:33-12:55	027	012	—	—	3. Fuzzy, faint loop/cavity superposed on polar streamer. Deflections.
			13:50-22:25?	015	046	Mar 23 13:50-14:21	143 ₁ *	017†
							2	Loop

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OF POOR QUALITY

† Position of feature was measured along a non-radial line.

Speed₁ → Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ → Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the mean histogram.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual		
Mar 24	084	09:37-11:13?	315	—	—	—	—	1	Cloud Loop	Very faint cloud superposed on rays.
Mar 24	084	10:51~17:49	232	031	Mar 24 10:51-11:26	2171*	230	3	Cloud Loop	Thick, structured loop/cavity superposed on streamer. Deflections. Streamer is disrupted.
Mar 24	084	18:37-20:13	~314	~057	—	—	—	0	Too faint	Very faint cloud superposed on faint rays. Deflections.
Mar 25	085	02:35-07:38	234	015	Mar 25 04:53-05:06	6821*	238	6	4 Tongue	Could be two events: 1. Tongue superposed on rays.
			152?	036?	—	—	—	1	Very little motion while visible	2. Elongated loop/cavity superposed on streamer. Deflections.
Mar 26	086	01:03~05:52	098	051	—	—	—	1	Mound	Complex, structured mound (or loop/cavity) with structured core and concave-outward 'U'-shaped material all superposed on existing structures. Deflections.
Mar 26	086	13:56-20:24	212	033	Mar 26 13:56-14:24	1261*	208	2	5 Outer loop	Multiple, concentric loops/cavities superposed on rays. Deflections.
					Mar 26 14:24-18:59	0671*	215	8	6 Inner cavity	
						0592				
Mar 27	087	04:41-07:22	225	016	—	—	—	0	No obvious front	Two part event, edge in pylon shadow:
		04:41-07:22	<204	>038	Mar 27 05:02-05:56	3661*	210	4	7 Outer loop	1. Bright, irregular tongue superposed on rays. 2. Thin loop/cavity with fuzzy, internal loop/cavity(?) at north edge of outer loop.
		05:02-05:56								Northern leg of outer loop is superposed on rays from part one. Deflections. Loop is visible in southwest polaroid sequence.
Mar 27	087	06:31<14:07	~301	~028	—	—	—	0	No obvious front	Cloud superposed on rays and streamers. Could be wider.
Mar 27	087	13:54-18:47	082	047	—	—	—	1	Front in 13:58 image. Edge visible at 13:54.	DATA GAP: Mar 27 07:22 to 13:46. Loop(?)/cavity superposed on streamer. Rays at event boundary are bent. Big deflections. Region is disrupted.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual		
Mar 27	087	18:51-20:30?	246?	072?	—	—	—	1	Front visible for three minutes only. Very little motion.	Faint, thin loop/cavity superposed on rays and streamers. Deflections.
Mar 28	088	07:35-11:24?	225	021	Mar 28 09:10-10:50	127 [*]	225	5	Tongue	Irregularly-shaped tongue superposed on rays. Could be concave-outward, 'V'-shaped. Deflections.
Mar 28	088	10:35-13:51	~084	~024	—	—	—	0	Front visible for five minutes only. No apparent motion.	Fuzzy mound (or thick loop/cavity) superposed on rays. Deflections. Could extend as far south as 110°.
Mar 28	088	17:07-18:51	152	115	—	—	—	0	Front at 17:09 only	Wide loop/cavity superposed on wide fan (or streamer). Deflections.
Mar 28/29	088/089	22:13-01:02	222	024	—	—	—	0	No clear front	Irregularly-shaped tongue superposed on rays. DATA GAP: Mar 29 01:31 to 04:51.
Mar 29	089	05:50-07:26	~228	~010	—	—	—	0	Front visible for ninety seconds only. No apparent motion.	Loop(?)/cavity superposed on rays. Deflections. Could extend as far north as 262°.
Mar 29	089	06:01-10:34?	~352	~032	—	—	—	0	Missed front?	Irregular material with cavity and core superposed on rays. Probably missed the front between 00:57 and 06:01 images. (See previous DATA GAP). Core is visible in north images. Region is disrupted. Deflections.
Mar 29	089	09:01-12:11	~040	~030	—	—	—	0	No clear front	Fuzzy tongue superposed on streamer. Big deflections.
Mar 29	089	10:49?-13:51?	238	032	Mar 29 10:49-11:00	616 [*]	230	4	Loop	Irregular loop/cavity just south of faint rays (or fan). Deflections. Motion in region at 09:05.
Mar 29	089	13:49-20:13	142	026	Mar 29 15:23-17:12	022 [*]	142	4	Cavity	Loop/cavity superposed on streamer (or fan). Region is disrupted. Deflections.

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Speed₂ → Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	PA	Qual	
Mar 29/30 089/090	15:26~04:24	236	041	—	—	—	—	—	0	Too fuzzy
Mar 29/30 089/090	22:00-02:37	177	050	Mar 29/30 22:00-01:01	117 ₁ * 127 ₂	190	3	5	Cavity	Mound superposed on rays. Front of mound evolves and fades.
Mar 30	090	10:33-12:09	327	020	—	—	—	—	0	Faint fan (or jets). Best seen in 10:33 image.
Mar 30	090	13:47-15:25	~039	~062	Mar 30 13:47-14:25	257 ₁ * 381 ₂	055	6	6	Thin loop/cavity superposed on rays and streamers. Could extend as far south as 096°.
Mar 31	091	15:40-21:54	136	052	Mar 31 15:40-17:02	188 ₁ 302 ₂ *	135	5	7	Multiple, concentric loops/cavities with highly structured, arrowhead-shaped (prominence) core superposed on fan (or streamers). Core is bright in 18:50 ha image. Deflections. Region is disrupted.
					Mar 31 15:40-17:02	177 ₁ 316 ₂ *	135	5	7	Outer loop
					Mar 31 17:00-18:43	216 ₁ * 283 ₂	139	6	5	Outer cavity
										Back of 'arrowhead'-shaped core (prominence)
Apr 01/02 092/093	12:08-02:38?	240	042	—	—	—	—	—	0	DATA GAP: Apr 01 04:24 to 11:05.
										Slow rising loop(?)/cavity (or mound) superposed on streamer. Front evolves. Region is disrupted. Deflections.
Apr 04/05 095/096	20:15<07:33	100	020	—	—	—	—	—	0	DATA GAPS: Apr 02 02:40 to 10:42. Apr 02 11:10 to 15:38. Apr 03 01:52 to Apr 04 17:11.
										Fuzzy mound superposed on rays (or streamer). Deflections.
										DATA GAP: Apr 04 21:02 to Apr 05 07:28.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual		
Apr 05	096	07:28<20:07 07:28-12:07	343	044	Apr 05 07:55-09:33 069 ₂	047 ₁ * 337	3	4	Loop	Two part event: 1. Loop/cavity superposed on streamer. Surrounding rays move toward streamer during event.
		~15:45-21:49~345	—	—	—	—	0	Front visible for ninety seconds. No apparent motion.	2. Concave-outward, 'U'-shaped blob in 15:45 and 15:47 images at 343° 4R ₀ superposed on streamer. Material is ejected until ~21:49.	
Apr 05	096	09:10-14:01	250	030	—	—	—	0	No obvious front	Small, fuzzy cloud with blobs superposed on rays. Deflections.
Apr 05/06/097	097	12:11-~02:41	097	046	—	—	—	0	Front at 12:11 only	(Multiple?) loop(?) / cavity superposed on streamer. Front is asymmetric. Concave-outward
					Apr 05 12:11-13:52 197 ₂	234 ₁ * 090	3	5	Concave-outward material	'U'-shaped material follows loop. Loop is visible at edge of field of view in 12:11 image. Gone from field of view by 12:45. Blobs (or clouds) ejected until ~02:41. Streamer is blown out. Deflections.
Apr 06	097	02:46-18:38	~2220	~042	—	—	—	1	Loop	Fuzzy loop/cavity superposed on rays. Evolves and fades by ~06:01.
		17:00-~18:38	233	010	Apr 06 10:45-14:06 023 ₂	026 ₁ * 210†	5	4	Concave-outward 'U'-shape	Fuzzy, concave-outward(?), 'U'-shaped
					Apr 06 17:02-17:32 482 ₂	541 ₁ * 237†	5	4	Blob	material ejected from ~10:45 until ~18:38. Blob ejected north of 'U'-shaped material from 17:00 until ~18:38.
Apr 06	097	04:43-10:37	~052	~052	—	—	—	1	Mound	Fuzzy mound superposed on streamer. Deflections.
** Apr 06	097	08:54-10:41	086	020	—	—	—	1	Greenline** images only	Structured mound superposed on streamer in greenline images. Deflections.

† Position of feature was measured along a non-radial line.

Speed₁ → Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ → Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

** Event was detected in the narrow bandwidth 5300-5306 Å 'green line' of Fe XIV.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Data Qual	Feature		
Apr 06	097	~16:58~20:25	068?	043?	—	—	—	0	Front at 18:34 only	Streamer at 065° swells slowly from ~16:58 until 17:29. Flattened loop/cavity appears in following frame at 18:34 just south of streamer. Streamer is disrupted. Deflections. Narrow material may have been ejected along ray at 062° from 15:20 until 15:34.	
Apr 06/07 097/098	21:48<09:10	060	041	Apr 06/07 23:22-00:58	022, [*] 018 ₂	060	5	5	Loop	Fuzzy, concave-outward(?) 'U'-shaped material at 21:48 superposed on streamer (or fan).	
				Apr 06/07 23:22-00:58	023, [*] 007 ₂	060	5	5	Cavity	Loop/cavity follows material from 23:20 until ~03:10. Loop fades. Region is disrupted. Deflections. Fuzzy, concave-outward, 'wishbone'-shaped material ejected late in event. No east sector images between 04:17 and 09:10. Material gone by 09:10.	
Apr 07	098	04:05-07:45	320	081	Apr 07 04:05-04:46 708, [*] 717 ₂	295	5	7	Loop	Bright loop/cavity with structured core superposed on rays. Deflections. Rays are blown out.	
				Apr 07 04:05-04:46 709, [*] 662 ₂	295	5	7	Cavity			
Apr 07	098	14:01-15:25	~035	~040	—	—	—	0	Front visible for eleven minutes only. No apparent motion.	Very faint cloud (with cavity?) superposed on faint rays. Deflections.	
Apr 08	099	14:28~19:12	~272	~040	Apr 08 15:21-17:01 105, [*] 094 ₂	280	3	4	Mound	Irregular mound (or cloud) superposed on rays. Deflections. Region is disrupted.	
Apr 09	100	04:21<09:00	218	009	—	—	—	0	No obvious front	Narrow tongue ejected just north of streamer. Deflections.	
										DATA GAP: Apr 09 04:53 to 07:15.	

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Feature	
PA	[deg]	PA	Qual	Mound					
Apr 09	100	12:43~15:40	282	075	—	—	—	1	Irregularly-shaped mound with some internal structure (and cavity?) superposed on rays (or streamers). Deflections.
Apr 09/10	100/101	21:37~02:35	262	065	Apr 09 23:16-23:59 435 ₂	3291*	265	12	5 Inner cavity
** Apr 11									
102	04:00>04:41	—	—	—	—	—	—	0	Multiple(?) loop/cavity and complex, (multiple?) loop-shaped core superposed on rays. Region is partially blown out. Deflections. Blobs ejected late along southern leg of event.
		04:00>04:41	255	023	—	—	—	0	Could be two events: 1. Concave-outward(?), 'U'-shaped cloud (or blob) superposed on fan and ray. 2. Blob 'N' Ray.
Apr 11	07:56-09:33	288	082	—	—	—	—	0	Faint, multiple, adjacent loops/cavities (or single, broad, irregularly-shaped loop/cavity) superposed on existing structures. Southern loop/cavity is visible until ~09:12.
		04:21>04:41~288	—	—	—	—	—	0	Northern loop/cavity evolves into a broad cloud with concave-outward(?), structured core after 07:58. Deflections.
Apr 11	102	14:10~20:44	280	029	—	—	—	1	Loop
		14:10~20:44	280	029	—	—	—	1	Small loop/cavity with small, bright, structured (prominence?) core superposed on rays. Deflections.
Apr 11	102	18:26-20:23	013	027	—	—	—	0	Mound superposed on rays in one image only.
		18:26-20:23	013	027	—	—	—	0	DATA GAP: Apr 11 21:37 to Apr 12 00:57.
Apr 12	103	04:04>18:27	077	035	—	—	—	0	Too fuzzy
		04:04>18:27	077	035	—	—	—	0	1. Cavity(?) in streamer. Streamer swells and disrupts. Appears to collide with material in part two. 2. Irregularly-shaped, structured mound. Northern part is superposed on streamer and fan. Southern part of mound is concave-outward, 'wishbone'(?) shaped. Deflections.
** Events numbered 1 through 10 are from SMM 1980, Jan 1 to Mar 31. Events numbered 11 through 29 are from SMM 1980, Apr 1 to Jun 30.									

ORIGINAL IMAGE IS
OF POOR QUALITY

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** Events numbered 1 through 10 are from SMM 1980, Jan 1 to Mar 31. Events numbered 11 through 29 are from SMM 1980, Apr 1 to Jun 30.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Trajectory Times [UT]	Speed [km/s]	Kinematics			Comments	
							# Data Pts	PA	Qual		
Apr 12	103	07:20~23:42 07:20~14:13	253	010	—	—	—	—	0	No obvious front	Two part: 1. Narrow tongue superposed on ray. Ray fades. Deflections.
		12:13~23:42	279	018	—	—	—	—	0	No obvious front	2. Small cavity appears in streamer and moves outward. Deflections. Streamer is disrupted.
Apr 12	103	<15:13>18:25	~003	—	—	—	—	—	1	Material	Faint material superposed on ray.
											Deflections. Could have missed the front between 13:56 and 15:13 images. No north images between Apr 12 18:25 and Apr 13 00:49. Ends during north sector data gap.
Apr 12	103	15:15-17:24	~117	~055	—	—	—	—	0	Front visible for ninety seconds only. No apparent motion.	Mound (or loop/cavity) in 15:15 and 15:17 images. Northern edge is well defined; southern edge is very fuzzy. Event is superposed on streamer and surrounding rays. Deflections.
Apr 12/13 103/104	21:33~05:42	253	035	Apr 12 21:33-22:21	398 ¹ * 335 ₂	250	4	6	Tongue	Tongue (or loop/cavity) with (prominence?) core superposed on streamer and rays. Deflections. Hint of $\text{H}\alpha$ emission in core in 23:23 $\text{H}\alpha$ image.	
Apr 13	104	07:12-12:02	~008	~015	—	—	—	—	0	No obvious front	Faint fan of material at 07:12 superposed on faint rays. Second fan appears in same location at 10:24. Motion in northwest region throughout event. Event may be wider.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Data Qual	Feature		
Apr 13	104	09:10-10:32	~302	—	—	—	—	0	Jets	Narrow jets ejected at 277° and 302°.	
		304?	056?	—	—	—	—	0	Cloud	Jet at 302° is brighter. Motion in ray at 333°. Very faint cloud ejected(?) from 277° to 333°.	
Apr 14	105	04:49-08:47	005	051	Apr 14 04:49-06:10	285 ₁	005	3	Outer loop	Archetypal loop/cavity with structured, interior (prominence) loop/cavity. Inner loop emitting in line of $h\alpha$ at 07:18 and 07:21. Event is superposed on rays. Western leg is superposed on streamer. Loop front flattens as it moves out through field of view.	
			006	030	Apr 14 04:49-06:10	409 ₂ *	005	3	Outer cavity	Region is blown out. Deflections.	
					Apr 14 05:44-07:21	292 ₁	005	3	Outer loop	Multiple, concentric(?) loops/cavities with amorphous core in streamer just west of previous 04:49 event. Streamer is disrupted.	
					Apr 14 05:44-07:21	374 ₂ *	005	5	Inner loop (prominence)	Large deflections.	
					Apr 14 05:44-07:21	266 ₁	005	5	Inner cavity	Irregularly shaped material superposed on system of rays. Deflections.	
					Apr 14 05:44-07:21	365 ₂ *	005	5	Outer loop	Fuzzy material superposed on rays.	
					Apr 14/15 09:09-04:23	353 ₂ *	305	23	Outer loop	Blob 'N' Ray at 218° late in event from 21:37 until ~23:13.	
					019 ₁ *	017 ₂	—	—	No obvious front	Deflections. Could be related to previous southeast event at 08:55.	
Apr 14	105	~08:55-16:49?	126	028	—	—	—	0	No obvious front	Structured mound (or loop/cavity) with core superposed on rays (or streamers). Deflections.	
Apr 14	105	15:35?-23:13?	~238	~042	—	—	—	0	No obvious front		
Apr 14/15	105/106	23:09<04:01	020	060	—	—	—	0	Front in one image only		

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Apr 15	106	~10:33~18:20 10:33-10:46	~075	~020	—	—	—	0	Front visible for eight minutes only. No apparent motion.	Two piece event: 1. Fuzzy mound superposed on streamer.
		11:59~18:20	098?	070?	—	—	—	0	Front at 11:59 only	2. Fuzzy cloud (or mound) with structured interior. Event is superposed on streamers. Entire region is disrupted. Large deflections. Northern part of cloud is in same location as mound in part one. Are these the same feature?
Apr 15/17	106/108	~22:05~07:52	282	035	Apr 15/16 23:13-04:02	041 ₁ * 002 ₂	282	4	Cloud	Structured cloud superposed on rays. Evolves and fades. Fainter tongue (or jets) ejected just south of cloud. Irregularly-shaped cavity becomes visible in streamer by 15:44 on Apr 16. Cavity rises slowly in fan and rays. Deflections. Region is blown out.
	106/107	22:12~01:22	~250	~020	—	—	—	0	Tongue	
	107/108	15:44~07:52	292	028	—	—	—	1	Cavity	
Apr 15/16	106/107	23:07~02:19	049	034	Apr 15/16 23:07-00:40	227 ₁ * 224 ₂	050	7	Loop	Thick loop/cavity with highly structured, loop-shaped (prominence) core. Core is visible in the emission line of Hα from 23:27 until 23:57. Event is superposed on streamer. Deflections.
	053	018	—	—	Apr 15 23:07-23:37	174 ₁ * 011 ₂	050	4	Cavity	
					Apr 15 23:07-23:57	108 ₁ * 103 ₂	050	8	Core (prominence)	

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature	
Apr 16/17	107/108	~04:00-23:46	~126	~057	Apr 16 15:37-19:59 015 ₁ * 019 ₂	120	5	3	First cloud Corona brightens and swells. Succession of clouds ejected in same location. First cloud visible from Apr 16 15:37 until Apr 17 02:22; second cloud seen from Apr 17 05:34 until 07:10; third cloud visible from Apr 17 13:34 until end of day. All superposed on wide fan. Fan is disrupted. Deflections.
Apr 17	108	01:12-02:20	071	037	Apr 17 01:12-01:24 206 ₁ *	075	2	9	Mound Faint mound superposed on rays.
Apr 17	108	05:32-06:02	113	045	—	—	—	1	Front visible for ninety seconds only. No apparent motion. Thick, complex loop/cavity and core superposed on broad fan. Deflections.
Apr 17	108	08:42-~10:40	~310	—	—	—	—	0	Missed front? Broad cloud (or loop/cavity) with several interior features and structured (prominence?) material in northern leg. Northern leg is bright in <i>hα</i> image at 09:30. Event is superposed on streamers and rays. Streamers are disrupted. Deflections. We probably missed the front of the event between 07:54 and 08:42.
Apr 17	108	13:30-~19:53	020	070	Apr 17 13:30-15:09 135 ₁ *	358	2	4	Cloud Broad, faint cloud with possible embedded loop/cavity all superposed on streamers. Streamers are disrupted. Deflections.
Apr 17/18	108/109	22:06-~08:48 22:06-23:11 23:05-00:42	303 312	035	— Apr 17 23:05-23:25 937 ₁ * 709 ₂	— 310	5	6	Could be up to three events: 1. Small, bright jet. 2. Irregular loop/cavity with possible core superposed on fan (or streamer). Deflections. 3. Jet (or narrow, elongated loop/cavity).
Apr 18	109	~04:03-~21:43	100	029	Apr 18 04:03-13:31 025 ₁ * 036 ₂	105	9	4	Broad mound (or loop/cavity) superposed on series of rays (or streamers). Possible concave-outward material forms later in event. Region is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	PA	Feature	
Apr 19	110	00:42~07:48 00:42-04:00	~105	~036	—	—	—	—	1	Mound
		04:00~07:48	095	015	—	—	—	—	0	No obvious front
Apr 19	110	02:20~16:46 02:20	225	050	Apr 19 04:07-10:40 047 ₂ *	025 ₁ —	223	16	6	Cavity
			226	024	—	—	—	—	—	Core
Apr 19	110	~03:52~07:54 ~07:54-09:06	~323	—	—	—	—	—	1	Jet
Apr 19	110	0301?	053?	Apr 19 07:54-08:36 655 ₁ *	306	2	4	Loop		Faint loop/cavity and structured core ejected between two streamers. Northernmost streamer is blown out. Large deflections. Event may extend as far south as 260°.
Apr 20	111	08:42~11:53	081?	080?	—	—	—	—	0	Too fuzzy
Apr 20	111	15:34-20:00	316	042	Apr 20 15:34-17:03 222 ₁ *	310	3	3	Loop	Flattened(?), complex mound (or cloud) with possible loop/cavity at southern edge all superposed on existing structures. Deflections.
Apr 21/22	112/113	~10:29~22:13	240	040	—	—	—	—	0	Irregularly-shaped loop/cavity and structured core superposed on fan. Faint cloud may precede loop front. Deflections.
			241	017	—	—	—	—	1	DATA GAP: Apr 20 23:50 to Apr 21 03:50.
Apr 21	112	12:21-16:56	~191	~046	—	—	—	—	0	Faint, small loop/cavity with core superposed on rays. Region is disrupted. Deflections.
										Concentric(?) loops/cavities(?) largely obscured by pylon shadow. Loops are superposed on rays (or streamer). Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Comments	
					Trajectory Times [UT]	Speed [km/s]	#Data Pts		
Apr 21/22	112/113	14:59~16:47	046	053	Apr 21/22 15:10-01:17	021, [*] 009 ₂	050 15	Cavity	Loop/cavity superposed on rays. Material appears late in event. Deflections.
Apr 22	113	17:29~19:47	111	032	—	—	—	Loop	Fuzzy, irregularly-shaped loop/cavity and small, bright core superposed on streamer (or fan). Region is disrupted.
			107	—	—	—	0	Core	
Apr 24	115	10:22~12:37	~137	~057	Apr 24 10:24-11:05	750, [*] 980 ₂	139 6	Loop	DATA GAPS: Apr 23 07:44 to 10:14. Apr 23 22:01 to Apr 24 00:35.
					Apr 24 11:51-12:17	368, [*] 152 ₂	136† 5	Core (prominence?)	Fuzzy, structured loop/cavity with structured (prominence?) core superposed on rays. Deflections.
Apr 24	115	~10:28~23:14	251	043	Apr 24 10:28-16:50	023, [*] 026 ₂	254† 13	Cavity	Cavity rises slowly in streamer. Loop becomes visible around cavity. Cavity has well-defined concave-outward, back edge (detached?) after ~13:30. Streamer is disrupted.
Apr 25/26	116/117	15:05~13:33	027	057	Apr 25 15:05-20:37	021, [*] —	013 2	5	Loop/cavity in streamer. Motion in streamer began on previous day. Streamer is disrupted. Deflections. Wider, faint cloud visible on Apr 26 from 00:36 until ~13:33.
Apr 25	116	~15:13~15:39	142	055	—	—	—	Front at 15:20 only	Faint cloud superposed on rays. Deflections.
Apr 26	117	~07:06~18:41	252	033	—	—	—	0	DATA GAP: Apr 25 15:54 to 18:10.
Apr 27	118	02:12~07:03	091	038	—	—	—	Too faint	Faint mound (or cloud) superposed on rays (or streamers). Deflections.
		02:12~02:51			—	—	—		Could be more than one event:
		02:46~03:48			Apr 27 02:46-02:58	596, [*] 212 ₂	095 5	Loop	1. Fan (or jet) superposed on streamer. 2. Loop/cavity superposed on streamer over-takes fan (from part one). Deflections. Region is disrupted.
		05:38~07:03			—	—	—	0	3. Structured cloud. Southern edge is brighter. Deflections.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Apr 29	120	13:20~14:54	121	048	Apr 29 13:20:06-13:21:50	1338 ₁ *	120	2	6	Thin loop/cavity with highly structured, multi-featured core superposed on rays. Second, more narrow, cavity follows core. Large deflections. Region is disrupted.
Apr 29/30	120/121	13:34-13:28	257	030	Apr 29 13:34-19:51	038 ₁ *	250	6	2	Structured mound (or loop/cavity) superposed on streamer. Front appears to stall between 15:35 and 18:16 on Apr 29. Acceleration(?) after 18:16. Front may be evolving or more than one structure may be present. Deflections. Region is blown out. Additional material is ejected from ~11:56 until 13:28 on Apr 30.
Apr 30	121	03:54<08:36	~116	~046	Apr 30 03:54-04:04	602 ₁ *	125	6	5	Complex, structured material (with cavities?) (or two adjacent, overlapping loops/cavities) superposed on faint fan and north edge of rays (or streamer). Southern edge leads northern edge. Deflections.
Apr 30	121	11:50~13:24	066	042	Apr 30 11:52-12:08	803 ₁ *	080	4	6	Cloud
					Apr 30 11:52-12:29	439 ₁ *	072	10	5	Interior cavity
						558 ₂				DATA GAP: Apr 30 04:31 to 06:54.
										Structured cloud with embedded cavity superposed on fan.
Apr 30/ May 01	121/122	19:45<00:50?	040	055	Apr 30 19:45-21:26	182 ₁	030	4	9	Outer cavity
						252 ₂ *				Multiple, concentric loops/cavities with structured (prominence?) core on and north of streamer. 'Light-bulb'-shaped by 21:21. Large deflections. Streamer is blown out. Ends during data gap.
					Apr 30 19:45-21:29	084 ₁	040	5	7	Core (prominence?)
						144 ₂ *				DATA GAP: Apr 30 13:40 to 15:38. Apr 30 15:46 to 18:06.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics		#Data Pts	Feature	Comments	
					PA	Trajectory Times [UT]				
May 01	122	08:38-16:31	240	037	May 01 08:38-16:31	038 ₁ * 011 ₂	245	6	Loop	DATA GAP: Apr 30 21:51 to May 01 00:46. Loop/cavity superposed on fan and rays. Faint material may precede loop front. Fan is disrupted.
May 01	122	16:53~20:28 16:53-18:25	~102	~075	May 01 16:55-17:14	368 ₁ * 515 ₂	110	3	Material	Could be more than one event: 1. Faint, irregularly-shaped material with multiple blobs and jets superposed on existing coronal structures.
		19:50~20:28 ~120	~050	May 01 19:50:58-19:53:05	822 ₁ *	120	2	4	Loop	2. Cloud with structured loop/cavity. Arc-shaped blob at northern edge. Event is superposed on and between streamers. Small embedded cavity is visible in southern part of cloud in 20:28 image. Deflections.
May 04	125	15:04~22:05	124	042	—	—	—	—	Cloud	DATA GAP: May 02 08:38 to May 04 14:56. Structured cloud with possible cavity superposed on streamer. Streamer is disrupted. Deflections.
May 05	126	08:31~13:22 08:31-10:24	207?	045?	—	—	—	—		DATA GAP: May 05 05:54 to 08:26. Two part event: 1. Cloud partly obscured by pylon shadow. Could extend as far east as 100°. Deflections.
		11:49-13:22	136	012	—	—	—	0	Arc at 11:49 only (prominence?)	2. Small bright arc of structured (prominence?) material superposed on rays.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature		
May 05	126	10:34~15:19	299	109	May 05 10:34-11:38	516 ₁ 625 ₂ *	300	7	Outer loop	Bright loop/cavity with highly structured, (multiple?) inner (prominence) loop/cavity.	Northern leg of inner loop contains complex, coiled structures and is extremely bright in $\text{H}\alpha$ filter. Outer loop flattens as it moves out. Event is superposed on streamers and rays. Region is partially blown out. Big deflections.
					May 05 10:41-11:38	540 ₁ 297 ₂ *	300	5	Outer cavity		
					May 05 10:47-12:01	487 ₁ 483 ₂	295	8	Inner loop (prominence)		
										Faint loop/cavity and concave-outward(?), 'U'-shaped core superposed on streamer. 'U'-shape is visible from 01:00 to 01:11. Deflections.	
May 06	127	00:30-02:08	238	030	—	—	—	1	Loop	Thick, fuzzy loop/cavity with complex, structured, interior (prominence) loop/cavity superposed on rays between streamers. Inner loop contains bright knots visible in $\text{H}\alpha$ filter from 10:34 until 12:17. Region is partially blown out. Large deflections.	Two part event: 1. Narrow fan. 2. Cloud superposed on streamers (or rays).
May 06	127	10:17~13:57	~281	~070	May 06 10:24-10:45	233 ₁ 420 ₂	275	7	Outer loop		
					May 06 10:24-11:53	258 ₁ 430 ₂ *	275	11	Outer cavity	DATA GAP: May 07 04:23 to 13:22.	Slowly rising loop/cavity superposed on streamer. Evolves and fades. Region is blown out. Deflections.
					May 06 10:43-12:10	250 ₁ 306 ₂	282	12	Inner loop (prominence)		
May 06	127	21:09~23:18 21:09~23:18 22:02~23:18	225	010	—	—	—	0	No obvious front	DATA GAPS: May 08 15:07 to 18:32. May 08 21:36 to May 09 06:45. May 09 10:30 to 13:24.	Preferred fit to the data. This quantity is included in the speed histograms.
May 07/08	128/129	<16:26~14:54	094	059	—	—	—	1	Loop		

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Date	DOY	Time [UT]	PA	Width [deg]	Kinematics			#Data Pts	Feature	Comments
					Cent	Trajectory Times [UT]	Speed [km/s]			
May 09/10	130/131	~13:24~02:40	313	037	—	—	—	—	Mound	Mound (or cloud) in streamer. 'Light-bulb'-shaped by 18:02. Streamer is blown out. Deflections.
May 09/10	130/131	<13:48~01:55	~029	~093	—	—	—	—	Too faint	Very faint cloud (or mound) superposed on background structures. Region is blown out. Deflections.
May 09/10	130/131	22:53-01:57	113?	070?	—	—	—	—	0	DATA GAP: May 09 15:31 to 17:56.
Jun 18/19	170/171	20:07~05:43	064	077	Jun 18 20:07-22:07	194 ₁ 305 ₂ *	070	11	Outer loop	DATA GAPS: May 10 10:44 to Jun 03 13:58. Jun 03 21:12 to Jun 18 12:23. Jun 18 17:31 to 20:07.
					Jun 18 20:07-22:07	130 ₁ 262 ₂ *	070	17	Outer cavity	Thick, wide loop/cavity with thick, flat-topped inner (prominence?) loop/cavity in streamer. Streamer is blown out. Big deflections.
					Jun 18 21:40-22:07	242 ₁ *	050	8	Inner loop (prominence?)	
						282 ₂			Inner cavity	
Jun 19	171	~12:20~23:28	040	040	Jun 19 12:20-17:03	065 ₁ 127 ₂ *	038	5	Cavity	Cavity and core superposed on streamer and rays. Loop becomes visible around cavity. Region is disrupted. Deflections.
Jun 19/20	171/172	23:41-04:20	~207	~045	Jun 19/20 23:41-01:21	126 ₁ * 114 ₂	215	11	Loop	Loop/cavity and core superposed on streamer (or fan). Deflections. Region is blown out.
					Jun 19/20 23:41-01:21	139 ₁ *	207	9	Cavity	
					Jun 20 00:58-02:57	178 ₁ *	207	6	Core	
						237 ₂				

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	
Jun 20	172	~03:00>14:17	301 302?	071 049?	—	—	—	1	Top of streamer
									Streamer swells slowly. Low contrast cavity appears in streamer and blows out from ~04:05 until 14:17. Inner loop(s?) / cavity visible from ~13:53 until 14:17. Big deflections. Region is blown out following data gap from 14:17 until 04:10.
Jun 21/24	173/176	~09:10~22:09 ~09:10~15:41	260? 024?	~015 ~272	—	—	—	1	Cavity
173	174	20:20>09:24	260? 04:26~22:09	~035 ~260	Jun 21/22 21:59-09:24 014,* 018 ₂	250	5	5	DATA GAP: Jun 20 14:22 to Jun 21 04:03. Very slow. Could be more than one event: 1. Narrow cavity in streamer. Streamer is disrupted. Deflections. 2. Small, narrow mound (or cloud). Deflections.
175	176	04:26~22:09	—	—	—	—	—	0	Too fuzzy
Jun 21	173	12:27-15:41	309	006	—	—	—	0	Too faint
Jun 21/22	173/174	23:10-02:39	~103	~025	Jun 21/22 23:10-01:05 192,* 177 ₂	105	10	7	No clear front
									3. Slow rising, cloud superposed on streamer and rays. Region is blown out. Deflections. Small blob and jet superposed on fan. Deflections.
									DATA GAP: Jun 21 12:27 to 15:19.
									Very faint, very thin loop(?) / cavity with possible core superposed on rays and streamers. Deflections.
									DATA GAPS: Jun 22 09:29 to 12:22. Jun 22 12:23 to 21:34. Jun 24 08:55 to 11:55. Jun 25 04:43 to 15:05. Jun 25 18:23 to Jun 26 02:15. Jun 26 07:47 to 11:52.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature		
Jun 26/27	178/179	~12:27~00:47	207	068	Jun 26 21:51-22:03	449 ₁ * 351 ₂	220	8	5	Outer loop
	178	21:51-22:03	215	030	Jun 26 21:51-22:03	473 ₁ * 740 ₂	220	8	5	Inner loop
			210	017						Core
	178/179	23:07-00:47	216	015	Jun 26 23:07-23:40	359 ₁ * 333 ₂	220	6	5	Flattened loop
					Jun 26 23:07-23:40	366 ₁ * 335 ₂	215	8	5	Cavity following flattened loop
Jun 27/28	179/180	~02:10~19:57	~226	~042	Jun 27 02:10-10:28	019 ₁ * 029 ₂	227	15	4	Outer cavity
					Jun 27 03:46-13:31	016 ₁ * 010 ₂	227	23	4	Outer core (prominence?)
					Jun 27 07:15-23:05	017 ₁ * 022 ₂	226†	27	4	Inner core (prominence?)
										DATA GAP: Jun 27 13:45 to 16:37.
Jun 27	179	16:59?~23:07	247	035	Jun 27 16:59-17:25	346 ₁ * 413 ₂	253	4	3	Loop
					Jun 27 16:59-17:27	333 ₁ * 276 ₂	253	9	4	Cavity
					Jun 27 16:59-18:14	227 ₁ * 143 ₂	253	13	6	'C'-shape in core
Jun 29	181	02:44>21:53 02:44~04:29	240	025	Jun 29 02:44-02:59	690 ₁ * 653 ₂	250	7	7	Loop
		18:39~21:53	244	025	Jun 29 18:39-18:59	1172 ₁ * 825 ₂	250	8	4	Material

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Comments		
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature Qual		
Jul 01	183	01:01~02:44	255	—	—	—	—	No front	DATA GAPS: (due to premature closing of shutter)	
Jul 02	184	05:15~11:44	357	069	—	—	—	1	Jun 29 10:48 to 13:22. Jun 30 00:00 to 08:37.	
Jul 04	186	08:27~10:16	221	019	—	—	—	0	Small, narrow jet superposed on fan.	
Jul 05	187	06:45~13:18	355	076	—	—	—	1	Faint cloud superposed on and between streamers. Deflections.	
		06:45~11:34	355	076						
		11:34~13:18	~325	—	Jul 05 11:34~12:11	245 ₁ * 322† 195 ₂	9	5	DATA GAP: Jul 02 23:38 to Jul 03 03:34.	
Jul 05	187	11:34~22:45	050?	050?	—	—	—	0	Fuzzy cloud superposed on pre-existing faint structures. Deflections.	
		045	015							
Jul 05/06	187/188	11:36~22:47	084	068	Jul 06 00:21~08:20	025 ₁ 075 5	5	Loop (late in event)	Could be more than one event: 1. Faint mound superposed on streamers. Deflections.	
					049 ₂ *					
Jul 05	187	~11:39~19:36	138	050	—	—	—	1	2. Narrow tongue (or loop/cavity).	
		134	025							
Jul 05/06	187/188	23:07~00:39	~305	~050	—	—	—	0	Mound superposed on streamers. Cavity embedded in north edge of mound superposed on northern streamer. Region of streamer in vicinity of cavity is blown out. Deflections.	
									Cavity rises slowly in broad diffuse streamer (or fan). Loop becomes visible around cavity Jun 06 at ~00:21. Bright core appears at 03:38 on Jun 06. Region is disrupted. Deflections.	
									Fuzzy, faint loop/cavity with loop-shaped core superposed on streamer and rays. Deflections. Entire sector is brighter due to ongoing activity.	
									Irregularly-shaped material superposed on fan.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Jul 06	188	00:23~08:53	~263	~085	Jul 06 00:25-00:59 1005 ₂	911 ₁ * 918 ₁	270 270	16 16	7 7	Loop Cavity
					Jul 06 00:25-00:59 1190 ₂ *					Loop/cavity with amorphous core superposed on background fans. Region is disrupted. Big deflections.
			249	045	Jul 06 00:32-00:58 832 ₁ *	832 ₁ *	250	8	5	Core
					863 ₂					
Jul 06/08 188/190 ~17:54~05:47					—	—	—	—	0	DATA GAP: Jul 06 09:00 to 11:39. Slow disruption of streamer. Deflections.
Jul 09	191	00:11-02:08	292	026	Jul 09 00:11-00:52 484 ₁ *	300	9	7	Outer loop	DATA GAP: Jul 08 16:54 to 21:07.
					388 ₂					Multiple, concentric loops/cavities with complex, structured (prominence?) core superposed on streamer. Loop front flattens as it moves outward. Loop becomes 'light-bulb'-shaped. Streamer is disrupted. Deflections.
					Jul 09 00:11-00:52 424 ₁ *	300	9	8	Inner cavity	
					378 ₂					
					Jul 09 00:11-00:57 409 ₁ *	300	10	7	Core (prominence?)	
					408 ₂					
Jul 09/10 191/192 01:50<08:16					—	—	—	—	0	Two part event. Poor coverage. Data dropouts and data gaps throughout both parts of event.
191	191	01:50<22:43	077	037	—	—	—	—	0	1. Cloud north of and superposed on streamer.
					—	—	—	—	0	2. Elongated cloud. Could extend further south.
192 ~01:47<08:16 ~064 ~034					—	—	—	—	0	DATA GAPS: Jul 09 02:28 to 22:40. Jul 10 16:25 to 19:24. Jul 11 00:53 to Jul 12 16:03. Jul 12 16:43 to 20:55. Jul 13 03:40 to Jul 14 14:28.
Jul 15	197	05:29~11:10	090	014	—	—	—	—	0	Narrow, faint cloud superposed on streamers and rays.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					PA [deg]	Times [UT]	Speed [km/s]	# Data Pts	Feature	
Jul 16	198	17:35-23:57	226	057	Jul 16	17:35-19:13	0911*	225	4	Faint, fuzzy, flattened loop/cavity with faint (loop-shaped?) core superposed on rays and streamers. Deflections. DATA GAP: Jul 16 19:27 to 22:17.
Jul 17	199	06:36-~07:53								Could be two events. Same start/stop times for both parts.
			066?	034?	Jul 17	06:36:02-06:41:08	10541*	068	4	1. Faint loop/cavity superposed on streamer.
			126?	046?		727 ₂		—	—	2. Faint cloud superposed on streamers.
Jul 17	199	<14:15-~15:52	042	015		—	—	—	0	DATA GAP: Jul 17 11:45 to 14:15.
						—	—	—	0	Faint mound (or loop/cavity) between streamers. Not visible in previous image at 11:14.
Jul 19	201	06:15-11:05	358	075		—	—	—	1	DATA GAP: Jul 18 07:52 to 14:14.
						—	—	—	1	Faint loop/cavity superposed on rays. Deflections. Region is disrupted.
Jul 21	203	03:16-~09:55	~255	~040		—	—	—	1	EAST DATA ONLY: Jul 19 18:57 to 22:48.
						—	—	—	1	Mound superposed on streamer. Irregularly-shaped material seen in 06:12 image. Deflections. Event may be wider.
Jul 21/22/203/204	203/204	~21:21-~09:45	~212	~045		—	—	—	0	DATA GAPS: Jul 21 03:35 to 06:06. Jul 21 06:52 to 09:18.
						—	—	—	1	Multiple loops/cavities superposed on streamer. Outer loop is very faint. Streamer is disrupted. Streamer began slow expansion and brightening early Jul 20.
Jul 22	204	<06:04-~09:52	~315	~050		—	—	—	0	Cloud superposed on fan. Missed front between 02:58 and 06:04 images. Deflections. Region is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					PA	Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature		
Jul 23	205	~03:05~07:53	260	050	—	—	—	—	0	No obvious front	Very faint cloud (or mound) south of streamer. Deflections.	
Jul 27/28	209/210	20:37~07:52	230	020	—	—	—	—	1	Cavity rises in streamer (or fan). Material rises above cavity. Region is disrupted. Deflections.	DATA GAPS: Jul 24 17:59 to 20:36. Jul 25 13:08 to 17:10.	
Jul 29	211	05:06~17:53 05:06~07:51 10:54~17:53	278 024 ~292	024 ~055	Jul 29 05:06~06:09 560 ₂	455,* 275	5 5	5	Loop	Could be two events: 1. Flattened, faint loop/cavity superposed on and north of streamer. Deflections. 2. Cloud (or irregularly-shaped material) superposed on rays and streamer. Region is disrupted.	DATA GAP: Jul 28 12:24 to 15:30.	
Aug 05	218	19:16~23:22	075	041	Aug 05 20:00~20:50 Aug 05 19:16~20:50 070	386 ₁ *, 417 ₂ 294 ₁ 424 ₂ *, 193 ₁ *, 222 ₂	060 070 070	11 12 22	4 5 6	Loop Cavity Core (prominence?)	DATA GAPS: Jul 29 19:21 to Aug 01 23:35. Aug 02 01:53 to 15:23. Aug 02 22:30 to Aug 03 02:34. Aug 04 01:37 to 18:31. Aug 05 03:15 to 07:23. Aug 05 07:29 to 12:04.	DATA GAP: Aug 06 11:04 to Aug 08 21:32.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Time [UT]	Speed [km/s]	# Data	Pts	Qual	
Aug 09	222	18:25~20:01	282	057	—	—	—	—	0	No apparent motion in images 90 seconds apart.
Aug 10	223	12:05~13:40	287	035	Aug 10 12:05-12:37 318 ₂	285	5	7	Loop	Faint, fuzzy loop/cavity with loop-shaped core superposed on faint fan.
Aug 10/11/223/224	~21:28-02:30 ~21:28-00:49	01:11-02:30	107	034	Aug 10 21:28-21:50 Aug 10 02:11-02:30	367 ₁ * 349 ₂ 442 ₂	105	4	3	Loop
224			~143	~040						Could be two events: 1. Fuzzy loop/cavity superposed on fan. 2. Bright, highly structured (prominence) material. Bright in $\text{H}\alpha$ filter at 01:11. Region is disrupted. Deflections. DATA GAP: Aug 11 02:30 to 04:33.
Aug 11	224	07:03-08:37	052	035	Aug 11 07:05-07:20 394 ₂	325 ₁ * 394 ₂	6	7	Back edge of loop	Complex, structured (prominence?) loop/cavity superposed on fan.
Aug 11/12/224/225	~11:53-23:09 ~11:53~13:38~226	~031	—	—	—	—	—	—	0	No obvious front
224			222	027	—	—	—	—	1	Cavity
225			~23:09~030	—	—	—	—	—	0	Too faint
225	07:02~08:33	104	025	—	—	—	—	—	1	Mound
Aug 12	225	00:34-03:46	055	026	—	—	—	—	0	Irregularly-shaped mound superposed on streamer and rays. Deflections.
Aug 13	226	13:21-15:16	134	080	Aug 13 13:21-13:48 1340 ₂ *	634 ₁ 376 ₁ *	100	7	6	Outer loop
			164	019	Aug 13 13:23-13:48 531 ₂	165	7	4	Inner loop	Complex, structured, irregularly-shaped loop/cavity with structured core including interior, narrow loop/cavity in southern half of core. Event is superposed on pre-existing structures. Deflections.
Aug 13	226				Aug 13 13:23-13:50 667 ₂	328 ₁ *	165	7	3	Inner cavity

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments
					PA	Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Aug 15/17	228/230	~21:22~02:33									DATA GAPS: Aug 13 18:33 to 22:52. Aug 14 14:58 to 18:13. Aug 15 11:52 to 16:26.
	228/229	~21:22-11:47	~095	—	—	—	—	—	0		Two part event: 1. Fan ejected.
	228/230	22:52?~02:33	055	029	—	—	—	—	0		2. Material in streamer slowly expands and elongates. Cavity and core become visible in streamer late in event on Aug 16 ~19:36. Thick loop(?) becomes visible around cavity. Core is pinched at base to form concave- outward 'V'-shaped structure. Streamer is blown out. 'Light-bulb' shaped event.
			~058	~018	Aug 16/17 19:36-01:06	069 ₁ 113 ₂ *	060	28	5	Cavity (late in event)	DATA GAPS: Aug 16 05:39 to 11:40. Aug 16 11:47 to 16:53. Aug 17 07:14 to 13:10.
Aug 18	231	11:43-16:19	113	048	Aug 18 11:43-12:15	408 ₁ 594 ₂ *	113	10	7	Loop	Cavity and highly structured (prominence) core rise in streamer. Streamer deforms into frontal loop around cavity. Loop front flattens and sharpens as it moves outward. Core is extremely bright in ha filter from 11:50 until 15:26. Streamer is blown out. Big deflections.
					Aug 18 11:43-12:15	499 ₁ 616 ₂ *	113	11	9	Cavity	
			116	043	Aug 18 11:43-13:10	502 ₁ 729 ₂ *	118	10	9	Core (prominence)	
Aug 18/19	231/232	~16:16~11:39	070	034	—	—	—	1	Top of streamer	Cavity rises slowly within streamer. Streamer expands and blows out by Aug 19 07:18. Jets ejected until ~11:39 on Aug 19.	DATA GAPS: Aug 19 14:52 to 17:51. Aug 19 18:15 to 20:12. Aug 19 20:16 to Aug 21 01:49. Aug 21 03:27 to 06:37.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	
Aug 21/22	234/235	09:58?~08:46	~250	~020	—	—	—	0	No obvious front
Aug 22/23	235/236	05:42-03:57	069	042	—	—	—	1	Mound
Aug 22	235	18:30-21:36	281	023	Aug 22 18:30-20:08 298 ₁ * 292 ₂	288†	23	7	Material (prominence)
Aug 25/26	238/239	17:52~08:24	~267	~035	—	—	—	0	No obvious front
Aug 25/26	238/239	18:15~11:30	088	028	Aug 26 06:28-09:40 048 ₁ * 054 ₂	075†	3	4	Concave-outward structure

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Date	DOY	Time [UT]	Cent PA	Width PA [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	
										DATA GAPS: Aug 27 13:26 to 17:34. Aug 28 10:08 to 14:39.
										Aug 28 21:32 to Aug 29 03:39.
										Aug 29 13:20 to Aug 30 03:04.
										Aug 30 05:26 to 09:29.
										Aug 30 10:14 to 12:38.
Aug 30	243	14:32~19:06	180	049	Aug 30 14:32-18:12	059 ₁ * 047 ₂	175 145	3 7	5	Cavity Loop
Aug 30/31	243/244	20:38~01:26	143	095	Aug 30 20:38-21:09	780 ₁	145	7	9	Thin loop/cavity with highly structured (prominence) core superposed on rays. Core is bright in $\text{H}\alpha$ filter from 20:56 until 22:38.
						1097 ₂ *	145	5	9	Loop spreads laterally and outward.
						705 ₁ *	611 ₂			Big deflections. Region is disrupted.
						663 ₁ *	692 ₂	8	7	Small blobs ejected until ~01:26 on Aug 31.
Aug 31	244	03:01~07:56	051	058	—	—	—	—	1	Mound (or loop/cavity) with structured, interior, loop-shaped (prominence?) core superposed on streamer (or fan). Region is disrupted.
Aug 31	244	~03:09~11:07	098	025	—	—	—	—	0	Mound (or cloud) with possible cavity superposed on streamer. Deflections.
Aug 31	244	~06:17>23:54	240	040	—	—	—	—	1	Faint loop/cavity (or mound) and core superposed on and south of streamer. Deflections. Data gap occurs during event.
										DATA GAP: Aug 31 13:20 to 20:35.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Times [UT]	Trajectory	Speed [km/s]	# Data Pts	Qual	
Sep 01	245	06:11-07:46	297	055	Sep 01 06:18-06:27	810 ₁ * 629 ₂	280	6	7	Outer loop
					Sep 01 06:18-06:27	642 ₁ * 517 ₂	285	7	6	Outer cavity
			297	023	Sep 01 06:18-06:27	626 ₁ * 683 ₂	290	7	7	'Mushroom-shape' (prominence?) core
						—	—	—	0	Front in one image only
Sep 06	250	~02:46>14:02	320	020	Sep 06 03:08-09:10	018 ₁ * 011 ₂	322	6	5	Northern cavity
		~02:46>14:02								1. Northern loop/cavity superposed on streamer. Moves more slowly than southern loop. Ends after data gap.
		03:32-08:04	~298	~015						2. Southern loop/cavity superposed on streamer. Loop and streamer are blown out by 06:04. Deflections.
Sep 22/23	266/267	~17:00>02:40	068	044	Sep 22/23 17:00-02:35	011 ₁ * 017 ₂	065	16	3	Mound
										Faint mound (or cloud) between streamers. Observations end during event.
										DATA ENDS: Sep 23, 1980.
										Continuous operations resume Jun 07, 1984.

Speed₁ → Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ → Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column). * Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Ctrl PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Feature Qual	
									First continuous observations resume Jun 07, 1984.
Jun 08	160	20:36-21:50	~275	~010	—	—	0	No clear front	DATA GAP: Jun 07 18:07 to Jun 08 14:15.
Jun 09	161	12:09-~12:41	118?	055?	—	—	0	No clear front	Faint wisps of material at south edge of streamer. Could be wider. Deflections.
									Cloud superposed on southern edge of streamer. Northern edge tough to measure.
Jun 12	164	15:46-17:42	~259	023	—	—	—	—	DATA GAP: Jun 10 02:52 to Jun 11 05:00.
Jun 12	164	21:03-23:37	~129	~052	—	—	—	—	Fan (or jet) superposed on faint rays. Deflections.
Jun 14	166	12:05-19:40	116?	024?	Jun 14 13:45-15:20 211, [*] 444 ₂	114†	4	7	Cloud superposed on and north of streamer.
									Cloud
									Could be two events:
									1. Diffuse loop/cavity superposed on faint streamer. Could be wider. Deflections. Region is disrupted.
									2. Cloud (or loop/cavity) superposed on and south of disrupted streamer in part one. Deflections continue. Region is blown out.
									Could be two events. Same start/stop times for both. Data gap interrupts event.
Jun 17/18	169/170	~02:59-18:21?							1. Slow-moving, faint mound superposed on streamer.
									2. Slow-moving, low-contrast cavity superposed on streamer. Streamer is disrupted.
									Could be wider. No south data available.
									Faint cloud (or loop/cavity) superposed on streamer.
									DATA GAP: Jun 17 14:33 to Jun 18 15:02.
Jun 19	171	10:44-~13:58	315	050	—	—	—	1	Streamer slowly elongates. Blows out during data gap. Deflections.
									DATA GAP: Jun 19 12:08 to 21:31.
Jun 26	178	02:29-08:47	120	009	—	—	—	0	Narrow fan (or jet) appears south of small streamer and blows out.

† Position of feature was measured along a non-radial line.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Jun 27	179	09:57-13:06	~058	~046	—	—	—	0	No obvious front	Very faint cloud superposed on and south of streamer.
Jun 27	179	18:27-20:58	074	012	Jun 27 18:27-19:36	3281*	071†	2	Jet	Jet south of streamer. By 19:36 jet has widened and is concave-outward, 'U'-shaped with internal structure.
Jun 29	181	09:34-17:05	233	047	Jun 29 09:49-13:56	109 ₁ 185 ₂ *	230	7	Cavity	Loop/cavity and structured core superposed on streamer. Core is concave-outward, 'V'-shaped. Deflections. Streamer is blown out.
Jul 05/06 187/188	22:30-12:43	050	030	Jul 05/06 23:11-03:16	0281*	050	6	4	Cavity	Paint loop(?)/cavity and fuzzy core in streamer. Streamer is blown out. Deflections.
Jul 14	196	07:55-23:46 07:55-14:47	309	053	Jul 14 08:01-10:14 • 15:54-23:46	215 ₁ 307 ₂ *	300	6	9	Cavity
Jul 20	202	10:33-18:25	242	079	Jul 20 10:33-13:42	129 ₁ 055 ₂ *	255	3	5	Loop
Jul 21	203	13:15-16:14	~100	—	—	—	—	—	0	Large loop/cavity with structured, loop-shaped(?) core superposed on and south of streamer. Deflections. Region is disrupted.
										Loop(?)/cavity south of streamer. Northern edge is tough to measure.
										DATA GAP: Jul 23 12:22 to 21:43.

† Position of feature was measured along a non-radial line.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					PA	PA	Speed [km/s]	# Data Pts	Qual	Feature	
Jul 26	208	06:28-19:48	055	020	Jul 26	09:37-12:46	123 ₁ * 121 ₂	055	3	4	Cavity
Jul 28	210	00:59-10:26	~071	~052	—	—	—	—	0	No obvious front	
Jul 28	210	16:44-18:28	~108	~054	Jul 28	16:44-17:00	181 ₁ * 094†	2	4	Loop	
Jul 29/31	211/213	<16:21-06:16	108	052	—	—	—	—	0	No clear front	
Aug 09/10	222/223	18:21-16:40	086	055	—	—	—	—	0	No clear front	
Aug 11	224	05:01-06:40	042?	027?	Aug 11	05:01-05:30	204 ₁ * 140 ₂	062	9	5	Mound
Aug 13/15	226/228	~18:27-~08:06	226/227	~18:27-~15:14	040	—	—	—	0	No obvious front	
	227/228	16:31-~08:06	~182	~155	Aug 14/15	19:34-00:23	039 ₁ * 047 ₂	165	4	3	Loop
Aug 16	229	~07:50-~23:27	052	027	—	—	—	—	0	No clear front	

† Position of feature was measured along a non-radial line.

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★ Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Aug 20/21	233/234	02:06-15:16	289	011	—	—	—	0	No obvious front	Succession of narrow jets are ejected. Ray appears at Aug 20 ~02:06. Material is ejected along ray until ~03:42, from Aug 20 ~12:33 until 15:57 and from Aug 21 04:51 until 10:35 when ray disappears.
										DATA GAPS: Aug 22 00:44 to 16:19. Aug 23 00:20 to 15:56. Aug 29 04:42 to Sep 05 21:47.
Sep 06	250	10:26~23:39	129	020	—	—	—	0	No measurable front	Ray (or narrow fan) appears and expands south of existing structures. Material is ejected along ray.
Sep 10	254	01:38-18:57	~067	~040	Sep 10 01:38-12:02 088 ₂ *	037 ₁ 088 ₂ *	065	7	Loop	Two part event: 1. Fuzzy (multiple?) loop(?) / cavity with internal structure superposed on and north of fan (or streamer). Southern edge defines dark 'V' in corona. Swelling began on previous day. Part two follows immediately. 2. Huge faint loop/cavity (or mound with cavity) superposed on existing structures. Possible halo. Western edge may contain multiple loops and is followed by a loop-shaped core. Deflections. Eastern region is mostly blown out.
		01:38-12:36	~067	~040	Sep 10 12:02-14:14 102 ₂	093 ₁ *	054	4	Cavity	
		11:59-18:57	~008	~146	Sep 10 13:42-17:29 184 ₂ *	111 ₁ 184 ₂ *	315	7	5	Core
Sep 11	255	05:58-14:47	080	052	—	—	—	0	No clear front	Fan of material ejected just south of streamer.
Sep 11/12	255/256	11:44~04:54	309	050	Sep 11 10:38-21:40 068 ₂ *	031 ₁ 068 ₂ *	313	23	Mound	Mound (or loop) with cavity and structured core rise in streamer. Streamer is deflected northward and is disrupted. Base of ejection is concave-outward, 'V'-shaped from 21:49 until end of event.

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Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.
 Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).
 * Preferred fit to the data. This quantity is inclined in the second histogram.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics			# Data Pts	Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	PA			
Sep 16/17	260/261	~08:49~14:43	~267	~063	—	—	—	0	No obvious front	DATA GAP: Sep 13 18:50 to 23:25.
Sep 17	261	21:59~23:57	~042	~056	Sep 17 22:02~23:54	223 ₁ 346 ₂ *	045 7	6	Cavity	Slow expansion of faint material around faint streamer (or fan). Thin loop/cavity superposed on and north of streamer. Could be wider.
Sep 21/22	265/266	22:27~01:36	~072	~056	Sep 21/22 22:27~01:36	145 ₁ * 127 ₂	070 11	4	Cavity	DATA GAP: Sep 21 17:49 to 20:26. Faint (multiple?) loop/cavity superposed on streamer.
Oct 01	275	~08:34~21:41	~134	~086	Oct 01 11:34~17:52	173 ₂ *	125 12	7	Cavity	Cavity expands slowly in streamer. Loop(?) becomes visible around cavity and core is visible beneath cavity by 14:55. Cavity accelerates shortly thereafter. Deflections. Streamer is blown out.
Oct 02/03	276/277	14:20~23:23	107	039	Oct 02 16:07~19:43 Oct 02/03 21:18~00:27	065 ₁ * 039 ₁ * 046 ₂	101† 105 —	3 5 —	Loop	Loop/cavity and structured core superposed on fan. Core is concave-outward, 'V'-shaped. Vertex of 'V' becomes location of ray (or leg) that is deflected southward. Material may be ejected through fan prior to event from Oct 02 09:36 until ~11:47.
Oct 03	277	13:08<21:55	247	013	—	—	—	0	No obvious front	Material ejected in narrow fan (or streamer). Fan is blown out following data gap from 17:12 to 21:55.
Oct 12/13	286/287	16:41~19:27	325	030	—	—	—	1	Mound	DATA GAP: Oct 03 17:12 to 21:49. Small mound(?) superposed on streamer.
Oct 15/16	289/290	22:22~12:31	017	046	Oct 15/16 22:22~06:14	023 ₁ * 026 ₂	010 8	7	Mound	Streamer splits in two at 02:07 on Oct 13. Streamer splits into a third ray at 10:00. Faint mound superposed on and north of streamer. Fades into background brightness levels.

† Position of feature was measured along a non-radial line.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

★ Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Oct 17	291	~05:31~23:12	063	052	—	—	—	0	No clear front	Slow-moving cloud superposed on streamer. Streamer remains unaffected.
Oct 18	292	~03:55~12:45	068	047	Oct 18 06:27-08:39 Oct 18 05:02-08:39 Oct 18 06:27-09:35	094 ₁ 194 ₂ * 096 ₁ 170 ₂ *	070 070 063 ₁ 085 ₂ *	4 5 5 5	Loop Cavity Core (prominence?)	Loop/cavity and structured, loop-shaped(?) (prominence?) core superposed on streamer. 'Light-bulb'-shaped. Streamer is disrupted. Deflections.
Oct 21	295	11:33~23:11	~110	~030	—	—	—	0	No clear front	DATA GAP: Oct 19 13:02 to Oct 20 15:03.
Oct 21/22	295/296	21:37~08:38	064	058	Oct 21/22 22:47-00:46 Oct 21/22 21:37-00:46 Oct 21/22 22:47-00:46	205 ₁ * 268 ₂ 298 ₂ *	072 072 072	5 7 7	Loop Cavity Core	Cloud superposed on streamer. Base of cloud is concave-outward, 'U'-shaped. Streamer is disrupted. Deflections.
Oct 23/24	297/298	~00:28~12:02	~292	~035	—	—	—	0	No clear front	Loop/cavity and core superposed on streamer. Streamer is disrupted.
Oct 24/25	298/299	18:57~00:37	283	023	—	—	—	0	No clear front	Slow disruption of fuzzy streamer.
										Small mound(?) fans out and is ejected south of streamer.
										DATA GAPS: Oct 27 09:50 to Oct 30 00:05. Oct 30 13:24 to Oct 31 18:34. Nov 02 03:56 to 17:49.

† Position of feature was measured along a non-radial line.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Nov 02/03	307/308	<17:58<17:34	~083	~036	—	—	—	1	Cavity	Low-contrast cavity rises in streamer. Streamer swells during data gap from Nov 02 03:47 until 17:58. Cavity accelerates on Nov 03 at ~01:41. Material appears to be concave-outward, 'U'-shaped from Nov 03 02:16 until ~03:24. Data gap follows until Nov 03 17:34. Deflections. Streamer is disrupted. DATA GAP: Nov 03 03:30 to 17:21.
Nov 09/10	314/315	~19:48~13:06	240	027	Nov 09/10 22:56-03:55	0561,* 0592	247	4	Mound	Mound (or loop/cavity) superposed on streamer. Streamer began to swell early Nov 09. Bottom of ejection is concave-outward, 'V'-shaped from ~06:49 until 08:23. Streamer is partially blown out. Deflections.
Nov 10	315	19:17-22:26	~054	~035	Nov 10 19:17-21:20	419,*	060	5	Material	Faint material superposed on streamer. Streamer began slow expansion ~06:43.
Nov 11/12	316/317	~00:00~16:55	~060	~060	—	—	—	0	No clear front	Slow, faint, structured material superposed on streamer. Streamer is blown out. Deflections.
Nov 12	317	13:43-17:01	~283	~070	Nov 12 13:43-13:52	398,*	298	2	Mound	Faint mound superposed on and north of fan. Deflections.
Nov 13/14	318/319	22:49~20:50	101	048	Nov 14 00:23-08:15	0311,* 0392 0822	103†	5	Cavity	Cavity rises in streamer and is followed by a structured core. Fuzzy loop becomes visible around cavity. Base of core is concave-outward, 'V'-shaped from 06:41 until 12:58. Streamer is blown out. Deflections.
Nov 16/17	321/322	15:20-08:44	288	031	Nov 16 15:44-18:34	0911,* 1302	290	3	Mound	DATA GAP: Nov 15 15:52 to 18:49. Fuzzy mound with embedded loop(?)/cavity and core superposed on northern half of faint fan. Deflections.

† Position of feature was measured along a non-radial line.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

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★ Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Nov 17/18	322/323	21:52-03:37	~072	~027	Nov 17/18 21:52-02:06	103 ₁ * 117 ₂	075† 071†	9 7	Cavity	Cavity rises in streamer (or fan) and is followed by a bright, structured (prominence?) core. Streamer is disrupted. Deflections.
					Nov 17/18 22:45-02:06	098 ₁ * 129 ₂		7	Core (prominence?)	Motion in southeast throughout the day.
										DATA GAPS: Nov 20 15:57 to 23:10. Nov 22 18:20 to Nov 23 03:11.
Nov 24	329	15:19-21:56	294	029	Nov 24 15:19-20:51	045 ₁ * 059 ₂	292	12 11	Cavity	Faint loop/cavity and core superposed on fan (or streamer). Fan is disrupted.
					Nov 24 16:55-20:51	044 ₁ * 057 ₂	292	11 7	Core	Deflections.
Nov 25	330	08:39-11:01	313	014	Nov 25 08:39-09:26	267 ₁ * 310 ₂	308† 310 ₂	4 5	Blob	Narrow blob (or jet) superposed on fan (or streamer).
Nov 26	331	01:58-06:41	324	016	—	—	—	0	No clear front	Fuzzy blob (or cloud) superposed on faint streamer (or fan).
Nov 27	332	~09:30-~17:59	~115	~026	—	—	—	0	No clear front	Slow disruption of streamer (or fan). Deflections.
Nov 30/ Dec 02	335/337	~00:29-~01:18	247?	077?	—	—	—	0	No clear front	Very slow ejection of faint material around streamer and fan. Region is disrupted. Deflections. Tough to give start/stop times.
Dec 01	336	15:46-18:55	084	060	Dec 01 15:46-17:20	254 ₁ * 232 ₂	087	3 6	Cavity	DATA GAP: Dec 01 06:58 to 09:25.
Dec 09/10	344/345	23:30-04:16	077	028	Dec 09/10 23:30-01:43	220 ₁ * 278 ₂	070	7	Loop	Loop/cavity and possible core superposed on streamers. Deflections.
					Dec 09/10 23:30-01:07	203 ₁ * 224 ₂	070	5 7	Cavity	Loop/cavity and structured core in streamer. 'Light-bulb'-shaped. Streamer is disrupted. Deflections.

† Position of feature was measured along a non-radial line.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Comments
					Speed [km/s]	PA	#Data Pts	
Dec 14	349	13:46-16:55	280	040	—	—	—	No clear front Loop/cavity superposed on streamer and fan. Deflections. Event fades into background brightness levels.
Dec 18/20	353/355	16:59~15:58	~103	~065	—	—	—	DATA GAP: Dec 15 13:54 to Dec 16 14:43. Very slow disruption and blowout of adjacent streamers. Three faint fans and jets of material are ejected just north of streamers from Dec 18 ~16:59 until ~19:57, Dec 19 ~13:47 until ~16:58 and Dec 20 ~13:25 until 15:58. A new streamer begins to appear in region late Dec 20.
Dec 24	359	05:11-11:28	260	060	Dec 24 05:11-08:32 121 ₂ *	068 ₁ 121 ₂ *	257 6	Loop Cavity Deflections.
Dec 25/26	360/361	~12:48~07:57	~262	~021	Dec 24 06:34-08:32 221 ₂ *	149 ₁ 265	5 6	Slow blowout of streamer. Base of blowout is concave-outward, 'V'-shaped from ~02:37 until end of event. Deflections. Event could be wider.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).
* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Ctrl PA [deg]	Width [deg]	Kinematics			Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts		
Jan 04/05	004/005	~07:05~05:39	252	050	—	—	—	1	Streamer
Jan 10	010	07:35~14:17	~312	~035	Jan 10 07:35~12:34	063 ₁ * 083 ₂	308 6	6	Cavity
Jan 14/15	014/015	03:14~01:01	285	066	Jan 14 06:44~10:51	053 ₁ * 063 ₂	285 6	7	Wisp
Jan 17/18	017/018	09:38~07:40	262	055	Jan 17 11:12~18:06	050 ₁ * 067 ₂	278 9	6	Mound
Jan 21/22	021/022	~06:26~01:50	271	100	Jan 22 00:17~00:20	800 ₁ * 366 ₁ *	245 270	2 8	Fast cloud
						365 ₂		5	Concave-outward shaped core
Jan 22	022	19:14~23:30	290	027	Jan 22 19:14~21:57	097 ₁ * 120 ₂	287 6	6	Loop
Jan 28	028	00:25~19:16	~108	~065	Jan 28 02:05~08:23	030 ₁ * 028 ₂	108 —	4	Mound
Feb 02	033	~03:29~17:21	242	067	—	—	—	1	Streamer

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

FIG. 10 DIMENSIONLESS RATIO

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Feb 17	048	20:33-23:45	099	032	—	—	—	0	Front at 20:36 only	Asymmetric, flattened loop(?)/cavity superposed on and north of streamer. Streamer is disrupted.
Feb 18	049	10:46-17:05	086	030	—	—	—	0	No obvious front on fan and streamer.	Material (bulge) with cavity(?) superposed on fan and streamer.
Feb 22	053	13:52~16:07	093	066	Feb 22 13:52-14:34	234 ₁ *	080	3	Mound	Mound superposed on streamer. Deflections.
Mar 14/15 073/074	~05.55~04:15	266	040	—	—	—	—	—	—	DATA GAPS: Feb 28 13:47 to Mar 01 00:03. Mar 01 19:04 to Mar 02 15:22. Mar 07 08:48 to 15:09. Mar 11 13:56 to 18:00.
Mar 17	076	20:21-22:05	~101	~038	—	—	—	0	No clear front	Streamer expands slowly and blows out. Deflections.
Mar 21/22 080/081	03:10-01:40 080	03:10-04:35	078	035	—	—	—	0	Front at 03:10 only	1. Small loop(?)/cavity in streamer. Data is streaked. 2. Structured material ejected in streamer. Streamer is disrupted. Data gap follows. 3. Concave-outward(?) shaped material superposed on streamer.
080	09:19-12:27	077	042	—	—	—	0	No clear front	DATA GAP: Mar 21 14:08 to 20:16.	
080/081	23:28-01:40	081	038	—	—	—	1	Material	Slow expansion and partial blowout of streamer. Base of blowout appears concave-outward, 'V'-shaped. Data is streaked.	
Mar 28	087	06:34-16:37	255	040	—	—	—	0	No clear front	DATA GAP: Mar 21 14:08 to 20:16.

Speed₁ → Speed was determined from a constant velocity fit to the number of points indicated.

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	PA	Qual	
Mar 31 / Apr 01	090/091	<17:49~01:41	095	060	—	—	—	—	0	No obvious front
Apr 14	104	04:18-07:27	098	040	—	—	—	—	0	Front at 04:18 only
Apr 23/24	113/114	20:07-01:42	064	074	—	—	—	—	0	No clear front
Apr 24	114	09:37-10:23	~035	~210	—	—	—	—	1	Loop in two images only at 09:37 and 09:40. Very little motion.
May 02	122	08:05-12:49	270	040	May 02 08:05-08:47	746 ₁ *	265	2	4	Loop
May 05	125	07:28~13:06	064	025	—	—	—	—	0	No clear front
May 05	125	12:09~15:05	275	080	May 05 12:09-12:18	664 ₁ *	295	2	6	Loop
May 06	126	07:59~12:42	095	040	May 06 07:59-08:39	116 ₁ *	095	2	5	Cavity

Speed₁ → Speed was determined from a constant velocity fit to the number of points indicated.

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature	Comments	
									PA	Qual
May 12	132	08:57-11:56	289	015	—	—	—	0	No clear front	DATA GAPS: May 08 14:13 to May 09 03:33. May 09 07:27 to 11:29. May 10 07:06 to 13:14.
May 12/13	132/133	22:56-01:08	273	040	May 12 22:56-23:34	214; [*]	275	2	Mound	Faint mound (or cloud) superposed on streamer. DATA GAPS: May 16 07:43 to 19:34. May 17 07:21 to 20:44. May 19 09:41 to 16:49. May 24 07:27 to 10:47. May 27 19:56 to May 28 14:42. Jun 04 12:31 to Jun 05 17:38.
Jun 12	163	~06:11-~19:46	~257	~021	—	—	—	0	No clear front	Slow moving cloud superposed on streamer. Streamer is disrupted. Deflections.
Jun 16/17	167/168	00:38-~23:51	091	060	—	—	—	0	No clear front	Slow blowout of streamer.
Jun 18/19	169/170	00:41-~23:11	257	072	—	—	—	0	No clear front	Slow southward expansion of pre-existing fan (or streamer) south of equatorial streamer. Fan is blown out. Deflections.
Jun 28/29	179/180	<22:34-~06:26	097	027	—	—	—	1	Cavity	DATA GAPS: Jun 26 05:14 to 15:31. Jun 28 11:30 to 22:31. Faint, fuzzy loop(?)/cavity and core in streamer (or fan). Data is streaked. We may have missed an event during data gap. Fan (or streamer) at 105° is blown out during data gap from Jun 28 11:30 to 22:34.
Jun 29	180	17:26-20:34	102	045	Jun 29 17:26-18:03	329 ₁ ★	107	2	Loop	Multiple(?) loops/cavity and core superposed on streamer. Streamer is disrupted. Data is streaked.
					Jun 29 17:26-19:00	349 ₁	105†	3	Cavity	
						483 ₂ ★				

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					PA	Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature		
Jun 30	181	00:21-02:52	095	042	Jun 30	00:21-01:18	305 ₁ *	085	2	3	Loop	Loop(s?) / cavity with diffuse core superposed on and south of streamer. Streamer is disrupted. Data is streaked.
					Jun 30	00:21-01:55	377 ₁	085	3	3	Cavity	
Jul 02	183	21:32-22:29	100	055	Jul 02	21:32-21:35	1280 ₁ *	110	2	5	Loop	Loop / cavity and small, faint, loop-shaped(?) core superposed on and south of streamer. Large deflections.
					Jul 02	21:32-21:35	1600 ₁ *	110	2	5	Cavity	
Jul 09	190	02:22-06:11	253	100	Jul 09	02:25-03:02	690 ₁ *	270	2	5	Loop	DATA GAPS: Jul 03 17:27 to 20:27. Jul 06 02:01 to 05:50.
					Jul 09	02:25-03:02	752 ₁ *	275	2	5	Northern cavity	Loop/cavities superposed on streamer and faint fan. Looks like two overlapping loops at 03:02. Streamer is disrupted. Data is streaked.
Jul 15/16	196/197	20:29~01:16	266	054	Jul 15	20:29-21:57	185 ₁ *	270	2	2	Loop	Big, complex loop/cavity and possible core superposed on streamers. Streamers are deflected. Southern, fainter streamer is disrupted. Some streaking in data.
Jul 17	198	03:41-05:24	~288	~100	Jul 17	03:41-03:50	1195 ₁ *	289	2	8	Loop	Big, complex loop/cavity and possible core superposed on and south of streamer. Loop is immediately adjacent to next event. Big deflections. Streamer is disrupted. Event may be wider.
					Jul 17	03:41-03:50	1129 ₁ *	285	2	8	Cavity	
Jul 17	198	03:47-05:21	215	048	Jul 17	03:47-03:50	1600 ₁ *	220	2	8	Loop	Loop / cavity and faint core. Southern edge is obscured by pylon shadow. Loop is immediately adjacent to previous event.
					Jul 17	03:47-03:50	1000 ₁ *	220	2	9	Cavity	
Jul 25	206	19:13-23:59	085	042	Jul 25	19:13-19:57	223 ₁ *	080	3	4	Loop	Faint loop/cavity superposed on fan. Data dropouts obscure parts of event.
Aug 06/07	218/219	21:25~17:25	092	045	—	—	—	—	—	0	No clear front	DATA GAP: Jul 27 00:13 to 16:50.
												Slow-moving cloud superposed on streamer. Additional material is ejected in same region from Aug 07 15:38 to 17:25.

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Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Comments		
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Aug 07/08	219/220	20:27>08:06	263	034	Aug 07/08 20:27-04:38	044 ₁ 078 ₂ *	265 11	5	Cavity	Loop/cavity superposed on streamer. Small blob may be ejected along southern leg of loop just prior to data gap. Event ends during data gap.
										DATA GAP: Aug 08 08:06 to 18:22.
Aug 11	223	15:34-17:52	283	050	Aug 11 15:34-16:05	391,* 431 ₂	295 5	6	Outer loop	Complex, dimpled, concentric loops/cavities superposed on streamer. Bright (prominence?) blobs are visible on northern legs of outer and innermost loops at 305° and 295° respectively. Northern part of streamer is disrupted. Deflections.
					Aug 11 15:34-16:05	342,* 188 ₂	295 6	7	Outer cavity	
					Aug 11 15:34-16:05	406,* 468 ₂	295 4	7	Inner loop	
Aug 16/17	228/229	23:02~18:31	295	030	Aug 16/17 23:39-02:10	054,* 038 ₂	295 4	4	Mound	Faint mound superposed on fan (or streamer). Fan is disrupted.
Aug 19/20	231/232	12:15-23:28	083	080	Aug 19 12:53-14:27	062,* 063 ₂	095 3	4	Cavity	Faint loop(?)/cavity with possible core superposed on and north of streamer. Loop is gone by Aug 19 ~19:10. Additional faint material is ejected throughout Aug 20.
Aug 24/25	236/237	~04:16~23:06	255	050	—	—	—	0	No clear front	Very slow swelling and blowout of streamer. Some acceleration early Aug 25. Concave-outward, 'U'-shaped material visible from Aug 25 19:19 until 22:27.
										DATA GAP: Sep 05 16:57 to Sep 06 14:16.
Sep 11	254	02:59-05:55	063	010	—	—	—	1	Jet	Narrow jet appears north of streamer, widens and disappears.
Sep 12	255	03:56-18:05	094	008	—	—	—	0	No clear fronts	Multiple, narrow jets (or rays) are ejected in succession just north of fan (or streamer).
Sep 15/17	258/260	~08:10~05:47	275?	090?	—	—	—	0	No clear front	Very slow expansion of faint material superposed on streamer(s?). Region is disrupted. Deflections. Some streaking in data.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Times [UT]	Trajectory	Speed [km/s]	#Data Pts	Qual	Feature	
Nov 15/16	319/320	23:06~02:15	~107	~035	Nov 15/16 23:06-00:40	073,* 045 ₂	105	3	2	Cloud	Cloud superposed on streamer. Could be wider.
Dec 05	339	03:55~07:04	~095	~040	—	—	—	—	0	No clear front	DATA GAP: Nov 25 23:45 to Dec 04 15:18. Fuzzy material superposed on streamer. Bulge moves outward along streamer from 05:30 until 06:08. Poor quality data.

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Date	DOY	Time [UT]	Ctrl PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	
Feb 06	037	06:42-08:16	~289	~078	—	—	—	0	Front at 06:42 only
Feb 07	038	11:00-13:31	~261	~082	—	—	—	0	Front at 11:00 only
Feb 08	039	16:08-17:49	~281	~026	Feb 08 16:08-17:49	098 ₁ * 146 ₂	280	3	Loop
Feb 10	041	12:15-15:52	~272	~045	Feb 10 12:15-12:51	400 ₁ * 352 ₂	275	5	Loop
Feb 10	041	20:44-22:18	272	052	—	—	—	0	Front at 20:44 only
Feb 11	042	11:42-14:02	~269	~065	Feb 11 11:50-12:15	604 ₁ * 462 ₂ 567 ₂	254	3	Concave-outward material
Feb 12	043	20:50-23:02	~270	~030	—	—	—	1	Loop
Feb 13	044	03:27-19:28	~265	~070	Feb 13 03:27-03:36	475 ₁ * 450 ₂	270	4	Loop
		03:27-04:34	~264	~020	Feb 13 18:51-19:28	417 ₁ * 528 ₂	262†	4	Concave-outward material
		18:51-19:28							between streamers.

- ↑ Position of feature was measured along a non-radial line.
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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	#Data PA	Pts	Qual	Feature	
Sep 17/18	260/261	17:38~03:17	~089	~046	Sep 17 17:38-19:51	090 ₁ * 170 ₂	085	4	2	Loop	Faint loop(?)/cavity superposed on fuzzy streamer (or fan). Loop is visible from Sep 17 17:38 until ~21:25. Additional material visible from Sep 17 ~23:55 until Sep 18 ~03:17. Streamer is disrupted. Event may be wider. Data is streaked.
			~083	~025	Sep 17/18 23:55-01:29	103 ₁ * 157 ₂	085	3	4	Material	
Sep 24/25	267/268	~04:10~13:01	~262	~025	—	—	—	—	1	Top of streamer	Very slow disruption of streamer. Event may be wider. Some streaking in data.
Sep 25	268	~05:32~12:46	~135	~030	—	—	—	—	1	Cloud	Very faint cloud.
Sep 25/28	268/271	~20:45~16:15	068	060	—	—	—	—	1	Material	Very slow blowout of streamer. Material ejected south of streamer from Sep 27 07:14~10:25.
											DATA GAP: Sep 26 14:39 to 21:45.
Oct 02/03	275/276	20:58-00:44	257	053	Oct 02 20:58-23:10	235 ₁ * 226 ₂	265	12	6	Loop	Thin loop/cavity and structured(?) core superposed on and south of streamer. Loop becomes 'light-bulb'-shaped. Streamer is disrupted. Some streaking in data.
					Oct 02 20:58-23:10	234 ₁ * 255 ₂	265	12	6	Cavity	
					Oct 02/03 21:01-00:10	174 ₁ * 135 ₂	265	13	5	Core	
											DATA GAP: Oct 04 18:36 to 21:58.
Oct 05/06	278/279	~13:42~19:18	290	040	—	—	—	—	0	No clear front	Faint cloud on north side of streamer. Cloud expands slowly and blows out.
Oct 10/12	283/285	~20:49~01:08	~288	~045	—	—	—	—	1	Cavity	Slow disruption of streamer. Cavity blows out through south side of streamer. Ends during data gap. New structure forms Oct 11/12. Data is streaked.
											DATA GAP: Oct 11 14:47 to Oct 12 00:59.
Oct 25/26	298/299	two days	~260	~040	—	—	—	—	0	No clear front	Slow elongation and disruption of streamer.
Oct 25	298	~05:07~19:53	~085	~060	—	—	—	—	0	No clear front	Cloud superposed on streamer.
											DATA GAP: Nov 07 14:34 to Nov 08 14:59.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Aug 07/08	219/220	20:27>08:06	263	034	Aug 07/08 20:27-04:38	044 ₁ 078 ₂ *	265	11	5	Cavity
										Loop/cavity superposed on streamer. Small blob may be ejected along southern leg of loop just prior to data gap. Event ends during data gap.
Aug 11	223	15:34-17:52	283	050	Aug 11 15:34-16:05	391 ₁ * 431 ₂	295	5	6	Outer loop
					Aug 11 15:34-16:05	342 ₁ * 188 ₂	295	6	7	Outer cavity
					Aug 11 15:34-16:05	406 ₁ * 468 ₂	295	6	7	Inner loop
Aug 16/17	228/229	23:02~18:31	295	030	Aug 16/17 23:39-02:10	054 ₁ * 038 ₂	295	4	4	Mound
Aug 19/20	231/232	12:15-23:28	083	080	Aug 19 12:53-14:27	062 ₁ * 063 ₂	095	3	4	Cavity
Aug 24/25	236/237	~04:16~23:06	255	050	—	—	—	—	0	No clear front
										Very slow swelling and blowout of streamer.
										Some acceleration early Aug 25. Concave-outward, 'U'-shaped material visible from Aug 25 19:19 until 22:27.
Sep 11	254	02:59-05:55	063	010	—	—	—	1	Jet	Narrow jet appears north of streamer, widens and disappears.
Sep 12	255	03:56-18:05	094	008	—	—	—	0	No clear fronts	Multiple, narrow jets (or rays) are ejected in succession just north of fan (or streamer).
Sep 15/17	258/260	~08:10~05:47	273?	090?	—	—	—	0	No clear front	Very slow expansion of faint material superposed on streamer(s?). Region is disrupted. Deflections. Some streaking in data.

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Date	DOY	Time [UT]	PA [deg]	Width [deg]	Kinematics			#Data Pts	Feature	Comments
					Cent	Trajectory Times [UT]	Speed [km/s]			
Feb 15	046	22:40-23:21 22:40-22:55	~242	~015	—	—	—	—	1	Concave-outward, 'U'-shaped material superposed on ray (or streamer) in rolled images. Deflections. Width was measured at 4.5R _⊕ .
		22:55-23:21			—	—	—	—	0	2. Faint material superposed on streamer. Streamer is disrupted. Probably missed an event in afternoon during data gap.
Feb 16	047	00:17-05:00	272	037	Feb 16 00:17-00:55	167 ₁ * 114 ₂	280	4	7	Cavity Loop(s?) / cavity and core superposed on streamer. Streamer is blown out. Data is streaked and rolled 180°.
					Feb 16 00:39-02:13	149 ₁ * 086 ₂	280	5	8	Core
Feb 16	047	13:30-16:00	~275	~030	—	—	—	—	0	No clear front Small, faint blob (or cloud) superposed on rays. Fades into background brightness levels. Could be related to previous event. Data is streaked and rolled 180°.
Feb 16	047	20:40-22:18	257	074	Feb 16 20:40-21:22	456 ₁ 704 ₂ *	240	6	7	Loop Loop / cavity superposed on streamer in rolled images.
Feb 16/17	047/048	22:15~01:26	268	112	Feb 16 22:18-22:56	934 ₂ *	260	4	7	Big loop / cavity with possible fuzzy, inner loop / cavity superposed on streamer and rays.
					Feb 16 22:18-22:56	265 ₁ 477 ₂ *	260	4	7	Large deflections. Streamer is disrupted. Data is rolled 180°.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Feb 17	048	14:13~21:52	~247	~015	—	—	—	0	No clear front	Faint blob superposed on streamer in streaked, later from 19:03 until ~21:52.
										DATA GAPS due to Halley's comet observations:
										Feb 18 15:49 to Feb 19 03:39
										Feb 19 15:24 to 20:54
										Feb 20 14:59 to 18:58
										Feb 20 22:52 to Feb 21 02:46
										Feb 21 13:00 to 16:55
										Feb 21 22:27 to Feb 22 02:21
										Feb 22 14:11 to 18:05
										Feb 22 23:37 to Feb 23 03:31
										Feb 23 13:46 to 17:40
										Feb 23 17:48 to 20:49
										Feb 23 21:38 to Feb 24 03:10
										Feb 24 14:56 to Feb 25 01:07
										Feb 25 14:31 to 19:59
Feb 26	057	07:02~08:36	~104	~085	Feb 26 07:02-07:27	703 ₁ *	115	3	Loop	Flat-topped(?) loop/cavity and core superposed on and north of streamer. Large deflections.
					Feb 26 07:02-07:27	653 ₁ *	115	3	Cavity	Data is rolled 180° and streaked.
										DATA GAPS due to Halley's comet observations:
										Feb 26 15:40 to 21:12
										Feb 27 14:33 to 20:45
										Feb 28 13:16 to 18:45
Mar 06	066	17:50~18:35	~302	~083	Mar 06 17:50-17:58	731 ₁ *	310	2	Loop	Paint, wide, irregularly-shaped loop/cavity superposed on and north of streamers.
					Mar 06 17:50-17:58	598 ₁ *	310	2	Cavity	

Speed \downarrow \Rightarrow Speed was determined from a constant velocity fit to the number of points indicated.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Time [UT]	Speed [km/s]	#Data Pts	Qual	Feature		
											DATA GAPS: Mar 07 18:10 to 20:37. Mar 13 20:05 to Mar 14 17:35. Mar 17 13:55 to Mar 18 17:28. Apr 01 17:01 to Apr 02 21:14. Apr 02 21:14 to Apr 03 01:19. Apr 04 04:06 to 11:00.
Apr 05	095	~00:37>13:46	259	026	—	—	—	—	1	Streamer	Slow extension and disruption of streamer. Region is partially blown out following data gap.
Apr 19	109	07:09->08:46	~075	~030	Apr 19 07:12-07:48	2741*	073	2	5	Mound	Faint mound superposed on streamer.
May 03	123	11:07~>20:02	275	045	—	—	—	—	0	No clear front	DATA GAP: Apr 28 05:24 to 07:08.
			280	020	May 03 11:07-13:00	0531*	282	6	5	Cavity	Cavity (and core?) slowly disrupts streamer. Faint material moves out ahead of cavity. Cavity fades into background brightness levels or stalls. Data is streaked.
May 04	124	10:11-17:19 10:11-16:28	275	070	May 04 10:11-10:40	7501*	275	4	8	Loop	Could be two events: 1. Bright loop/cavity with complex core superposed on streamer(s?). Becomes flat-topped. Streamer is disrupted. Some streaking in data.
					May 04 10:11-11:01	8602					
					May 04 12:03-12:36	6991*	275	4	8	Cavity	
						7512					
					May 04 12:03-12:36	1611*	274	3	8	Cavity (in core)	
						1082					
					May 04 16:46-16:57	10391*	260	2	4	Loop	2. Faint, flat-topped, irregular loop(?) / cavity. Deflections
											DATA GAP: May 06 03:41 to 06:15.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
May 07/08	127/128	21:31-00:48	~280	~050	May 07 21:31-23:17	139 ₁ 042 _{2*}	290 3	4	Mound	Faint mound superposed on and north of streamer. Motion prior to event at 04:13.
May 14/15	134/135	~10:49~18:15	080	050						DATA GAP: May 08 14:01 to May 09 14:25.
Jun 05	156	01:25~04:41	~292	~045	Jun 05 01:25-02:09	227 _{1*} 104 ₂	297 4	5	Loop	Very slow disruption of streamer. Difficult to determine start/stop times. Data is streaked. DATA GAP: May 31 17:41 to Jun 03 13:18.
Jun 14	165	01:23-05:26	098	030	Jun 14 02:30-03:52	090 _{1*} 101 _{1*} 067 ₂	100 100 5	4 5	Loop Cavity	Deflections. Could be wider. DATA GAPS: Jun 05 13:09 to 23:24. Jun 06 17:01 to 19:50. Jun 07 13:50 to 15:19. Jun 12 08:34 to 14:09.
Jun 27	178	00:50~05:33	265	030	Jun 14 02:30-03:52	099 _{1*} 198 _{1*} 190 ₂	100 273 3	3 4	Core Loop	Loop/cavity with central bright core superposed on streamer. Could be 'light-bulb' shaped. Deflections. Streamer is disrupted.
Jul 02	183	08:07-10:43	290	020						Loop/cavity and core superposed on and south of streamer. Deflections. Streamer is disrupted. DATA GAP: Jun 27 19:38 to Jun 30 17:39.
Jul 11	192	05:09~10:32	~268	~060	Jul 11 05:12-05:49	376 _{1*}	275 2	8	Loop	Material ejected around faint fan (or streamer). DATA GAP: Jul 03 13:58 to Jul 04 14:23.
Jul 11	192	16:06~22:32	~090	~042						Jul 09 15:29 to 18:28.
Jul 12	193	06:57~10:54	275	026	Jul 12 07:46-09:38	168 _{1*} 179 ₂	275 5	3	Cloud Loop	Flat-topped loop/cavity and loop-like core superposed on streamer. Streamer is disrupted. Cloud superposed on streamer. Streamer expands. Loop(?)/cavity superposed on streamer. Streamer is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature	
Jul 13	194	02:37~07:38	276	042	Jul 13 02:37-04:11	249 ₁ *	280	9	Loop
					278 ₂				Loop/cavity and amorphous core superposed on streamer. Streamer is disrupted.
					Jul 13 02:37-03:17	292 ₁ *	280	7	Cavity
					377 ₂				
Jul 13/14 194/195	194	20:06~05:23	~082	~044	Jul 13/14 20:06-02:24	034 ₁ *	085	8	Cavity
					028 ₂				Loop/cavity with fuzzy core superposed on streamer. Streamer is disrupted. Deflections.
					Jul 14 00:55-01:17	289 ₁ *	280	7	Loop
					305 ₂				Loop/cavity and structured core superposed on streamer. Deflections.
Jul 14	195	00:37-05:29	~280	~044	Jul 14 00:55-01:17	285 ₁ *	280	8	Cavity
					431 ₂				
					—	—	—	1	Core
					—	—	—	1	Core
Jul 15	196	12:46~22:12	~030	~0280	Jul 15 12:46-13:26	229 ₁ *	285	9	Loop
					319 ₂				Loop/cavity and core superposed on streamer. Event may be wider.
					Jul 15 12:46-13:26	173 ₁ *	285	9	Cavity
					168 ₂				
Jul 17	198	03:12-07:29	~288	~075	Jul 15 13:04-13:26	193 ₁ *	285	7	Core
					307 ₂				
					—	—	—	0	Front in one image only
					—	—	—	1	Core
Jul 19	200	~02:24~12:47~273	~030	~030	Jul 19 03:39-09:38	041 ₁	264	8	Southern edge of mound
					081 ₂ *				Slow-moving mound (or cloud) superposed on streamer.
									DATA GAPS: Jul 22 16:50 to Jul 23 12:29
									Jul 24 12:50 to Jul 25 03:49.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Jul 28	209	02:28-05:37	~095	~015	Jul 28 03:16-04:49	094 ₁ * 155 ₂	6	5	Concave-outward 'U'-shaped structure	Concave-outward, 'U'-shaped material between existing structures in very streaked data. Could be wider.
Aug 06	218	19:52-23:52	039	034	Aug 06 19:52-22:18	040 ₁ * 055 ₂	4	5	Cavity	DATA GAP: Jul 31 20:56 to Aug 01 13:20. Loop/cavity superposed on streamer. Deflections.
Sep 14/15	257/258	~04:09-~08:26	090	050	—	—	—	—	No clear front	DATA GAPS: Aug 19 14:25 to Aug 25 20:30. Sep 12 13:35 to Sep 13 14:00. Slow disruption and blowout of streamer.
Sep 28	271	~08:16-~23:59	082	025	—	—	—	0	Material	DATA GAP: Sep 16 13:27 to 18:57. Cavity(?) expands slowly in streamer. Faint material ejected ahead of cavity. Cavity stalls or fades. Streamer expands but remains.
Oct 14/15	287/288	22:46-02:12	278	065	Oct 14 22:46-23:30	399 ₁ * 341 ₂	295	3	Outer loop	DATA GAPS: Oct 01 13:21 to Oct 02 20:04. Oct 03 17:10 to 22:46. Oct 08 09:43 to 18:59. Oct 09 04:34 to 16:03. Multiple loops/cavities and core superposed on streamer. Event moves non-radially (equatorward). Northern part of streamer is blown out; southern part is deflected. Slow expansion in region began the previous day. Data is partially streaked.
Oct 15	288	21:01-23:55	298	037	Oct 14/15 22:46-00:18	226 ₁ * 196 ₂	284†	4	Cavity	Loop/cavity with multiple, interior, structured (prominence) loops just north of streamer. Knots on inner loop are visible in H _α filter. Event moves non-radially (equatorward). Large deflections of streamer. Data is partially streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature		
Oct 16	289	05:02-07:44	263	035	Oct 16 05:02-05:21 Oct 16 05:02-05:21	401 ₁ * 286 ₂	260 3	5	Loop	Flat-topped loop/cavity with loop- (or mound-) shaped core all superposed on streamer. Deflections. Data is streaked.	
Oct 16/17	289/290	09:30~08:53 09:30~08:53	~093	~050	—	—	—	—	Core	Two part event: 1. Streamer expands slowly. (Cavities may be present in streamer.) 2. Loop(?)/cavity and structured core superposed on streamer. 'Light-bulb' shaped event. Streamer is disrupted. Deflections. Loop may be present in earlier image at edge of occulting disk. Data is streaked.	
290		~04:30~08:53 ~090	~040	Oct 17 05:59-06:27 Oct 17 04:30-05:59	209 ₁ * 090 090 037 ₂	090 2 3 6	5 5 6	Cavity Core			
Oct 16/17	289/290	17:36~04:33	270	020	—	—	—	1	Streamer	Streamer bulges, expands and disrupts. Possible concave-outward material late in event. Data is streaked.	
Oct 18/19	291/292	21:49-00:28	~308	~055	—	—	—	0	Faint at 21:49 only	Faint, thin loop/cavity with inner loop/cavity and core north of streamer. Very faint, concave-outward(?) cloud visible from 22:45 until 23:12. Deflections.	
Oct 19	292	00:37~03:20	090	060	Oct 19 00:40-00:52	654 ₁ * 578 ₂	080 4	7	Loop	Bright loop/cavity superposed on streamer. Streamer is disrupted. Large deflections.	
Oct 26	299	~03:45-23:58	100	030	Oct 26 09:50-16:47	039 ₁ 070 ₂ *	094 —	11 —	Cavity Core	Cavity with evolving core rises slowly in southern part of streamer. Loop becomes visible around cavity. Loop becomes 'light-bulb' shaped. Part of streamer is blown out. Deflections.	
Oct 31	304	09:24-12:33	080	050	—	—	—	1	Mound	DATA GAP: Oct 27 21:05 to 23:39. Faint mound superposed on streamer.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Comments			
					Speed [km/s]	PA	#Data Pts	Qual	Feature		
Oct 31/ Nov 01	304/305	22:04-08:49	099	062	Oct 31 22:04-23:24 Oct 31/Nov 01 22:27-00:01	301 ₁ * 165 ₂ 176 ₁ * 146 ₂	100 3 085 —	5 5 3 —	Loop Cavity	Faint loop(s?)/cavity and concave-outward, 'U'-shaped, structured core superposed on streamer. Streamer is disrupted. Deflections.	
Nov 01	305	11:58-13:32	127	105	Nov 01 11:58-12:38	295 ₁ *	125	4	3	Loop	
Nov 03	307	11:31-14:39	287	043	Nov 03 11:31-11:50	762 ₁ *	295	3	Cloud	Irregularly-shaped cloud (or loop/cavity) superposed on streamer.	
Nov 03	307	19:32-23:46	280	073	Nov 03 20:38-20:49	515 ₁ *	270	2	3	Cloud	
Nov 04	308	07:38-09:31	~280	—	—	—	—	1	Cloud	Cloud (or loop/cavity) superposed on streamer. Streamer is deflected. Southern edge of cloud appears flat-topped late in event.	
Nov 07	311	~09:29-~17:32	~270	—	—	—	—	0	No clear front	Faint, slow-moving cloud superposed on streamer.	
Nov 10	314	17:28-19:02	~285	~007	Nov 10 17:28-17:49 Nov 10 17:31-18:05	341 ₁ * 280 ₁ *	282 289	3 2	5 3	Jet H α blob	Jet of material with structured (prominence?) blob north of streamer. Blob is visible in H α filter. Jet is pinched at base to form concave-outward, 'V'-shape.
Nov 11	315	10:45-13:54	270	033	Nov 11 10:45-11:31	367 ₁ 638 ₂ *	275	5	3	Cloud	Faint cloud superposed on streamer. Deflections.
Nov 12/13/13/14/15/16/17	316/317	22:54>01:13	~265	~073	Nov 12/13 23:03-01:13	071 ₁ * 093 ₂	275	4	3	Cavity	Loop/cavity and core superposed on streamer. Deflections. Ends during data gap.
Nov 17	321	10:30-14:53	~274	~058	Nov 17 10:30-12:04	259 ₁ * 270 271 ₂	270	3	4	Cloud	DATA GAP: Nov 13 01:13 to 11:28. Faint cloud superposed on and north of streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual	
Nov 24	328	15:18-19:23	267	025	—	—	—	—	0	DATA GAP: Nov 19 14:20 to Nov 20 22:36. Faint cloud (or blob) superposed on streamer.
Dec 04/05	338/339	~14:13-04:27	274	048	—	—	—	—	0	DATA GAP: Dec 01 12:26 to 15:26. Material superposed on streamer expands and moves outward. Streamer is only slightly affected.
										DATA GAP: Dec 05 16:20 to 22:28.
										DATA ENDS: Dec 07, 1986 at 15:26. RESUMES: March 30, 1987.

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Date	DOY	Time [UT]	Ctrl PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Feature	
Apr 04	094	01:04-11:31							
		01:04-05:14	090	034	—	—	—	1	
		03:40-06:48	115	034	Apr 04 03:40-05:22	080 ₁ *	115	4	Loop
					Apr 04 03:40-05:22	051 ₁ *	115	4	Cavity
		09:57-11:31	~107	~040	—	—	—	1	Faint front in 2 images
Apr 05	095	03:14-03:47	092	030	—	—	—	0	Front at 03:14 only
									Loop(?)/cavity superposed on streamer.
Apr 06	096	04:55-06:29	085	~030	—	—	—	0	Front at 04:55 only
									Mound (or blob) superposed on streamer.
									Streamers disrupted.
									DATA GAP: Apr 06 19:03 to 21:30.
Apr 15	105	16:15-19:07	247	035	Apr 15 16:15-16:48	230 ₁ *	242	3	Cloud
						251 ₂			Faint cloud.
Apr 16	106	17:07-20:16	~245	~040	Apr 16 17:07-17:48	672 ₁ *	249†	3	Cloud
						536 ₂			Faint cloud followed by second cloud in same location. Could be wider.
					Apr 16 17:40-17:57	280 ₁ *	245	3	Second cloud
						280 ₂			
Apr 17	107	13:49-18:40	~100	—	—	—	—	0	No obvious front
					Apr 17 15:48-16:57	325 ₁ *	102	2	Blob
Apr 18	108	03:57-14:49	097?	015?	—	—	—	0	Front at 03:57 only
									Blob superposed on streamer. Could be as far south as 065°. Data gap occurs during event.
									DATA GAP: Apr 18 07:31 to 13:06.

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Date	DOY	Time [UT]	Cent	PA [deg]	Width [deg]	Kinematics						Comments
						PA	Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Apr 19	109	05:05-09:48	083	041	—	—	—	—	1	Front in two images only, one good, one fuzzy	Material expands and blows out through streamer. Streamer is disrupted.	
Apr 21/22	111/112	18:22~05:05	092	038	Apr 21 18:22-19:56	185 ₁ *	090	2	3	Loop	DATA GAP: Apr 19 23:57 to Apr 20 01:56. Fuzzy loop(?)/cavity in streamer. Streamer expands. Loop fades into background brightness levels.	
Apr 28	118	~01:25-10:17	266	038	Apr 28 03:15-07:09	079 ₁ * 099 ₂	255	10	6	Southern edge of loop	DATA GAP: Apr 23 13:11 to Apr 24 13:38. Loop(?)/cavity superposed on streamer. Streamer is disrupted.	
					Apr 28 02:26-03:15	045 ₁ *	268	4	3	Cavity		
						081 ₂						
May 17/18	137/138	~09:52-06:18?	~080	—	—	—	—	—	0	No clear front	Slow expansion and disruption of streamer.	
May 24	144	09:13-15:05	305	050	May 24 09:13-12:21	078 ₁	305	7	6	Loop	DATA GAP: May 20 17:16 to 19:34. Faint loop/cavity with (multiple?) inner loop/cavity. Possible concave-outward, 'U'-shaped material visible from 13:23 until 15:05.	
					May 24 10:14-11:48	143 ₂ *						
					May 24 10:47-12:05	096 ₁ *	300	4	4	Cavity		
					May 24 10:47-12:21	112 ₁ *	305	3	5	Inner loop		
					May 24 10:47-12:21	130 ₂						
					May 24 10:47-12:21	078 ₁	300	5	7	Inner cavity		
					May 24 10:47-12:21	346 ₂ *						
May 24	144	12:21-16:31	244	012	—	—	—	—	0	Front at 13:23 only	Faint cloud superposed on south side of streamer.	
May 26	146	07:39-15:38	115	040	May 26 07:39-08:12	206 ₁ *	110	4	6	Outer cavity	Multiple loops/cavities superposed on south edge of streamer. Streamer is deflected.	
					May 26 08:12-10:47	076 ₁ *	120	3	7	Second loop		
					May 26 08:12-09:46	046 ₂						
					May 26 13:03-14:37	049 ₁ *	120	2	5	Second cavity		
					May 26 13:03-14:37	079 ₁ *	253	4	6	Streamer	Expansion and disruption of streamer.	
						042 ₂						

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
May 29	149	00:43-06:11	279?	017?	—	—	—	0	Front at 02:18 only	Small, faint cloud superposed on south side of streamer.
May 29	149	17:10-18:45	270	050	May 29 17:10-18:00	375 ₁ * 374 ₂	275	3	Outer loop	Flat-topped (or heart-shaped) system (arcade?) of loops/cavities. Streamer is deflected.
May 29	149	20:44-23:52	275	060	May 29 21:53-22:43	459 ₁ * 257 ₂	275	3	Outer loop	Fuzzy material followed by multiple loops/ cavities and twisted, bright, structured core. Core extends to the southern edge of event.
					May 29 22:18-22:43	445 ₁ *	285	2	7	Northern cavity
					May 29 21:53-22:18	422 ₁ *	265	2	9	Southern cavity
					May 29 22:10-22:43	446 ₁ * 556 ₂	255	3	9	Outer edge of twisted core
May 30	150	08:08-08:53	~270	~045	—	—	—	0	Front at 08:08 only	Faint cloud (or loop/cavity). Deflections.
May 31	151	02:34-14:43	296	068	May 31 10:25-11:59	166 ₁	315	5	Outer loop	Slow rising, multiple loops/cavities with bright, twisted (prominence?) core superposed on streamer. Core is under northern half of loop. Rapid acceleration at ~10:01.
					May 31 11:35-12:24	338 ₂ * 410 ₁ *	318† 527 ₂	4	7	Core (prominence?)
										DATA GAPS: Jun 02 14:40 to 21:41. Jun 04 14:40 to Jun 05 15:39. Jun 05 17:38 to 19:13. Jun 10 09:33 to 13:27.
Jun 10	161	20:17-23:00	~252	~055	—	—	—	1	Cloud	Faint cloud (or fuzzy loop/cavity) superposed on and south of streamer.
										Jun 16 13:10 to Jun 17 13:28. Jun 18 01:16 to 14:35.
Jun 18	169	14:51-20:07	255	030	—	—	—	0	No obvious front	Expansion of faint material superposed on fan.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments	
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature			
Jun 25/26	176/177	~13:54~23:55	287	033	—	—	—	0	No clear front	Material superposed on streamer. Streamer expands slowly and blows out.		
Jul 07/08	188/189	17:21~05:10	030	070	Jul 07 17:21-18:02	255 ₁ * 402 ₂	040	4	7	Loop	DATA GAPS: Jun 27 20:05 to 23:13. Jun 29 04:21 to 06:40. Jul 01 16:05 to Jul 02 00:41.	
Jul 10/11	191/192	19:51-08:25	075	050	Jul 10/11 20:44-03:42	056 ₁ 113 ₂ *	090	10	5	Southern edge of mound	DATA GAP: Jul 09 18:43 to Jul 10 17:35.	
Jul 15	196	13:56-15:30	~090	~030	—	—	—	—	1	Obscured by artifact	Mound (with cavity?) in streamer. Streamer expands and blows out.	
Jul 18/19	199/200	22:35-02:45	~070	~020	—	—	—	—	1	Diffuse loop(?)//cavity superposed on south edge of streamer.	DATA GAP: Jul 18 00:27 to 02:02.	
Jul 20	201	13:26-15:33	~266	~090	Jul 20 13:34-15:00	244 ₁ * 321 ₂	260	3	4	Cavity	Very faint loop(?)//cavity.	
Jul 24	205	18:30-21:38	~280	~020	—	—	—	—	1	Loop	Wide, very faint loop/cavity.	
Jul 25/26	206/207	08:13-07:38	250	030	—	—	—	—	1	Paint material superposed on fan.		
Jul 27	208	12:19-16:28	102	055	Jul 27 13:12-13:53	314 ₁ * 315 ₂	089†	4	7	Loop	Structured material superposed on streamer.	
Jul 29	210	06:18>06:51	~242	~005	Jul 29 06:18-06:26	254 ₁ * 270 ₂	095	4	7	Cavity	Faint loop/cavity with interior loop-shaped(?) core superposed on south side of streamer.	
					770 ₁ *	243	2	3	Jet	Jet (or narrow loop/cavity).		
										DATA GAP: Jul 29 06:51 to 15:27.		

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Feature	Comments
					PA	Width [deg]	Trajectory Times [UT]	Speed [km/s]	#Data Pts		
Jul 30	211	07:17-08:51	~092	~005	—	—	—	—	—	No obvious front	Jet (or ray).
											DATA GAP: Jul 30 10:59 to Jul 31 14:33.
											Mound (or cloud) superposed on streamer.
Aug 01	213	19:05-22:47	268	038	Aug 01 19:05-19:38	4221*	260	2	5	Mound	Wide, faint loop/cavity with small, structured, inner (prominence?) loop/cavity superposed on west side of streamer.
Aug 02	214	11:12-16:03	352	145	Aug 02 12:05-12:55	3121*	340	4	8	Loop	Streamers is unaffected.
Aug 03	215	00:55-04:04	258	038	Aug 03 00:55-01:28	1931*	258	2	4	Mound	Mound (or cloud).
Aug 05	217	12:35-23:44	280	042	—	—	—	—	—	No clear front	Slow expansion of streamer.
Aug 05	217	17:10-21:44	~067	—	Aug 05 17:10-18:17	1031*	065	6	3	Cloud	Faint cloud.
Aug 06/07	218/219	16:43-~22:59	102	025	Aug 06 17:16-20:25	0311*	110	5	5	Cavity	Faint loop/cavity with possible core superposed on streamer. Streamer is disrupted.
Aug 19	231	10:56-11:46	263	086	Aug 19 10:56-11:13	6711*	225	3	5	Cloud	DATA GAPS: Aug 14 15:30 to 17:49. Aug 18 13:05 to 14:56.
Aug 19/20	231/232	~19:37-~01:29	240	022	Aug 19 10:56-11:21	4251*	225	4	6	Hook in material	Structured cloud visible from 10:56 until 11:21. Additional material (loop/cavity?) superposed on streamer in 11:46 image.
Aug 20	232	13:46-17:28	115	050	Aug 20 13:46-15:53	2141*	115	5	5	No clear front	Cavity superposed on streamer. Faint material precedes cavity.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics			Feature	Comments
					Time [UT]	Speed [km/s]	# Data Pts		
Aug 22	234	08:44-19:43	085	036	—	—	—	1	DATA GAP: Aug 21 10:52 to 14:46.
					Aug 22 11:19-14:27	101 ₁ * 148 ₂	090 4	6	Diffuse material followed by a loop/cavity(?) superposed on streamer. Streamer is disrupted.
Aug 23/24	235/236	22:24-04:34	080	050	Aug 23 23:26-23:59	492 ₁ *	095	2	Multiple mounds (or clouds) superposed on streamer. Streamer is disrupted.
Aug 26	238	07:05-22:47	281	043	Aug 26 07:05-16:30	052 ₁ 094 ₂ *	280† 9	5	Loop/cavity with core south of streamer. Core emerges late in event. Streamer is disrupted.
Aug 28	240	19:37-21:45	095	039	—	—	—	1	DATA GAP: Aug 27 19:11 to Aug 28 17:55.
Aug 29	241	03:20-04:10	272	055	Aug 29 03:20-03:37	669 ₁ *	295	2	Small loop(?)/cavity superposed on south side of streamer. Data is streaked.
					Aug 29 03:20-03:37	563 ₁ *	295	2	Large, flat-topped loop/cavity superposed on fan. Fan is blown out.
Aug 31	243	12:42-13:43	280	055	—	—	—	0	Faint loop/cavity(?). Southern leg of loop is bent strongly away from event.
Sep 01	244	13:49-17:58	330	—	Sep 01 13:49-14:50	142 ₁ *	328† 140 ₂	3	Front at 12:42 only
								4	Mound
Sep 01	244	16:16-17:50	110	055	—	—	—	1	Faint mound.
Sep 03	246	09:39-12:14	090	042	Sep 03 09:39-10:40	362 ₁ *	100	2	Structured material south of streamer. Streamer is deflected.
					Sep 03 09:39-10:40	343 ₁ *	100	2	Faint, flat-topped loop/cavity superposed on streamer. Streamer is disrupted.
Sep 07	250	09:27-22:54	106	047	Sep 07 10:28-15:11	086 ₁ 141 ₂ *	115 —	7	Diffuse loop/cavity with complex, structured, concave-outward, 'U'-shaped core superposed on streamer. Part of streamer is blown out.
								5	DATA GAP: Sep 08 03:53 to 08:19.
Sep 09	252	07:53-15:52	070	064	Sep 09 07:53-11:34	053 ₁ *	065	10	Sep 08 13:51 to Sep 09 03:10.
							067 ₂	3	Faint loop/cavity with faint core. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual		
Sep 09	252	17:35-22:51	274	028	—	—	—	0	No clear front	Swelling and expansion of material superposed on streamer. Streamer is disrupted.
										DATA GAPS: Sep 10 17:00 to 20:00. Sep 10 22:24 to Sep 11 03:51. Sep 11 19:58 to Sep 12 00:16. Sep 13 01:48 to 03:22. Sep 15 18:28 to 22:29.
Sep 16/17	259/260	02:19-02:53	~108	~037	Sep 16 02:19-06:28	015 ₁ *	105	5	Cavity	Fuzzy loop/cavity (or mound). Could be wider. Region is disrupted.
Sep 17	260	07:43-09:51	268	022	Sep 17 07:43-08:16	365 ₁ *	260	3	Mound	Flat-topped mound (with small cavity?).
Sep 17	260	16:00-17:42	262	075	Sep 17 16:00-16:08	704 ₁ *	240	2	Outer loop	Multiple loops/cavities(?) with possible loop-shaped (structured?) core superposed on streamer. Streamer is unaffected.
Sep 17	260	20:25-23:17	094	042	Sep 17 20:25-20:42	598 ₁ *	108†	2	Loop	Loop/cavity superposed on fan. Deflections.
Sep 21	264	13:55-23:45	~240	—	Sep 21 13:55-21:38	048 ₁ *	235	10	Mound	Faint mound (or cloud) superposed on and south of streamer.
Sep 22	265	10:36-14:46	062	045	Sep 22 11:38-13:12	172 ₁ *	065	3	Loop	Faint loop(?)/cavity and mound-shaped core.
					Sep 22 12:11-13:12	208 ₁ *	065	2	Core	DATA GAPS: Sep 22 16:54 to 20:55. Sep 22 21:44 to Sep 24 14:01.
Sep 24	267	17:34-23:18	091	042	Sep 24 19:09-22:17	058 ₁	100	6	Cavity	Loop/cavity and core superposed on fan. Could be 'light-bulb' shaped. Fan is disrupted.
						134 ₂ *				DATA GAP: Sep 25 15:42 to 18:01.

† Position of feature was measured along a non-radial line.

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 Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments
					Times [UT]	Speed [km/s]	# Data	PA	Pts	Qual	Feature
Sep 25/26	268/269	18:17~03:42	267	046	Sep 25 18:50-21:59	082,* 194 ₂	260	3	3	Core	Faint mound (or loop) with embedded cavity and core superposed on streamer. Streamer is disrupted. Possible concave-outward, U-shaped material from Sep 25 23:33 until Sep 26 ~03:42.
Sep 27	270	01:42~23:41	299	038	—	—	—	—	1	Concave-outward material	Faint cloud superposed on fan near equator. Northern edge accelerates and blows out beginning at ~16:23. Possible concave-outward material from 16:23 until ~23:41.
Oct 04	277	06:10-13:08	117	050	Oct 04 08:26-11:01	129, 257 ₂ *	130	6	3	Loop	Diffuse loop/cavity superposed on and south of streamer. Part of streamer is deflected.
Oct 06	279	16:24-19:32	075	026	—	—	—	—	—	Cavity	DATA GAP: Oct 04 22:41 to Oct 05 00:15.
Oct 09	282	07:45-20:18	118	005	—	—	—	—	1	Mound (or loop)	Two part event: 1. Multiple small jets in ray. 2. Mound (or loop/cavity) with interior structure in ray. Event may be wider.
		07:45-11:54	118	005	—	—	—	—	0	No clear front	DATA GAP: Oct 10 13:42 to 20:44.
		11:54-20:18	~127	~021	Oct 09 12:11-15:03	059, 050 ₂	130†	6	3	Mound	Fuzzy cloud near equatorial streamer.
Oct 11	284	10:07-14:50	272	025	Oct 11 10:07-11:41	229,* 307 ₂	270	3	4	Cloud	Curved material (loop/cavity?) south of streamer. Deflections.
Oct 14	287	08:38-11:13	083	027	—	—	—	—	0	No obvious front	Faint mound north of streamer. Could be wider.
Oct 16	289	01:35-13:35	~272	~035	—	—	—	—	0	No clear front	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Feature	
Oct 16/17	289/290 289	02:28-04:00 02:28-11:53	074	042	Oct 16 03:01-05:44 Oct 16 04:27-06:01	123 ₁ 183 ₂ *	070 072 ₁ *	7 7	Cavity
Ott 18	291	22:52-04:00 all day	~075 250	— 054	— —	— —	— —	0 1	Core (prominence) No clear front
Oct 20/22	293/295	~01:22-~06:38	~255	~030	—	—	—	—	Slow disruption of streamer.
Oct 21	294	03:48-08:39	081	048	—	—	—	0	Fan appears and expands. Fan is superposed on equatorial streamer.
Oct 23	296	10:13>12:37	290	030	Oct 23 10:13-12:37 Oct 23 10:13-12:37	044 ₁ * 013 ₂	291 6	6 6	Cavity
Oct 24	297	12:10-23:02	277	026	Oct 24 12:10-16:20 Oct 24 14:46-19:29	047 ₁ * 019 ₂	280 280	6 5	Cavity
Oct 25	298	18:46-19:35	283	048	Oct 25 18:46-19:35 Oct 25 18:46-19:35	312 ₁ 469 ₂ *	305 305	4 4	Loop
					Oct 25 19:02-19:35	323 ₁ *	305	9	Cavity
					Oct 25 19:02-19:35	434 ₁ *	305	7	Core
						282 ₂			

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature		
Oct 26/27	299/300	20:27-02:51	109	063	Oct 26 20:27-22:17 Oct 26 20:43-22:17	157 ₁ , 326 ₃ * 156 ₁ 216 ₃ *	125 120 4	5 7	Loop Cavity	Diffuse loop/cavity with structured (prominence) core superposed on and south of streamer. Streamer is unaffected.	
Oct 26/27	299/300	23:02-05:35	245	030	Oct 26/27 23:02-01:00	105 ₁ * 048 ₂	245 100	4 5	Mound Cavity	Very faint mound (or loop/cavity).	
Oct 27/28	300/301	12:17-08:08	096	052	Oct 27 12:17-16:52	042 ₁ * 026 ₂		2		Loop/cavity (or mound with cavity) and core superposed on streamer. Streamer is disrupted. Light-bulb' shaped late in event. Deflections. DATA GAPS: Oct 28 03:34 to 08:00.	
Nov 01	305	07:55-11:36	117	045	Nov 01 07:55-08:28	246 ₁ * 316 ₂	120	3	Cavity	Faint loop/cavity superposed on and south of streamer. Streamer is unaffected. Very faint material ejected late in event.	
Nov 01	305	12:54-17:12	116	052	Nov 01 12:54-14:12 Nov 01 12:54-14:12	387 ₁ * 435 ₃ 338 ₁ * 361 ₃	125 3	7	Loop	Fuzzy loop/cavity superposed on and south of streamer. Streamer is unaffected. Irregular material precedes loop. Could be related to previous event.	
Nov 02	306	14:26-17:26	287	035	—	—	—	—	1	Faint mound (or loop/cavity) superposed on streamer. Streamer is unaffected.	
Nov 03	307	16:51-21:42	110	041	Nov 03 16:51-18:08	321 ₁ 455 ₂ *	115	5	Cavity	Bright loop/cavity with loop-shaped core(?) superposed on streamer. Streamer is blown out.	
					Nov 03 16:51-18:08	203 ₁ * 193 ₂	126† 3	4	Core		

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Trajectory Times [UT]	Speed [km/s]	# Data Pts	Kinematics	Comments		
									PA	#	
Date	DOY	Time [UT]	Cent PA	Width [deg]	Trajectory Times [UT]	Speed [km/s]	# Data Pts	Kinematics	PA	Qual	
Nov 04	308	01:43-03:25	~020	~090	—	—	—	Front at 01:43 only	Very faint, broad mound spans north polar region. Could be wider. West edge is tough to measure.		
Nov 04/05	308/309	18:06-06:14	289	047	—	—	—	Front at 01:43 only	Two piece event:		
308/309	18:06-06:14	05:13	—	—	—	—	—	Front at 01:43 only	1. Slow expansion and disruption of streamer. 2. (Loop-shaped?) material superposed on streamer.		
Nov 05	309	07:40-~22:21	110	040	Nov 05 07:40-12:56	0371*	105	11	Cavity		
		07:40-~12:56	110	040	Nov 05 07:40-12:56	0542	—	—	Front at 05:13 only	Two part event:	
		12:39-~22:21	—	—	—	—	—	0	No obvious front	1. Loop/cavity superposed on streamer.	
		12:39-~22:21	—	—	—	—	—	0	Front at 05:13 only	Second, structured (prominence?) loop/cavity at south edge of first loop from 10:49 until 11:22. Streamer is disrupted.	
		12:39-~22:21	—	—	—	—	—	0	Front at 05:13 only	2. Mound-shaped material follows loops. Fades into background brightness levels.	
Nov 06	310	07:46-10:22	113	037	Nov 06 08:47-09:20	0701*	110	2	Cavity		
Nov 06/07	310/311	20:20-12:02	120	060	Nov 06 20:20-20:28	7761*	125	2	Loop		
311	17:45-22:53	122	047	—	Nov 06 20:20-20:28	7061*	125	2	Cavity		
		17:45-22:53	122	047	Nov 07 17:45-18:18	2701*	138	2	Core (prom?)		
		17:45-22:53	122	047	Nov 07 17:45-18:18	1582	125	3	Loop		
		17:45-22:53	122	047	Nov 07 17:45-18:18	2581*	125	3	Loop		
		17:45-22:53	122	047	Nov 07 17:45-18:18	3692	—	—	Loop		
Nov 07/08	311/312	20:01-~05:26	300	043	—	—	—	0	Front at 20:01 only	Bright loop/cavity superposed on fan. Fan is disrupted. Wisp of (prominence?) material is visible at north edge of event from 22:20 until 23:01. Data gap occurs near end of event.	
		20:01-~05:26	300	043	—	—	—	0	Front at 20:01 only	DATA GAP: Nov 08 03:52 to 05:09.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual	Feature	
Nov 08	312	17:51-22:09	~265	~030	—	—	—	0	No obvious front	Expansion of material in fan. Cavity may be present. Fan is disrupted.
Nov 09	313	12:41-23:33	114	032	—	—	—	1		Faint cloud superposed on streamer.
Nov 10/11	314/315	22:32-01:40	271	062	Nov 10 22:32-22:40	3931*	294†	2	Hook in core (prominence)	Fuzzy loop/cavity with structured, knotty (prominence) core in northern leg of loop. Region is disrupted. Deflections.
Nov 11/12	315/316	19:05-07:38	072	052	—	—	—	0	No clear front	Expansion and disruption of streamer. Concave-outward 'U'-shaped material may be present.
Nov 18/19	322/323	05:20-09:43	~105	~070	—	—	—	0		DATA GAPS: Nov 16 09:14 to 13:32. Nov 16 14:22 to Nov 17 14:39.
Nov 18/19	322/323	12:54-23:51	~240	—	—	—	—	0	No obvious front	Slow expansion of wide, faint, diffuse cloud around streamer.
Nov 19/20	323/324	10:44-11:51	106	071	Nov 19/20 22:09-09:16	0391	122†	18	7	Cavity
Nov 21	325	00:25-11:57	~102	~045	Nov 21 00:25-00:58	176 ₁ *	110	3	Cloud	Faint cloud superposed on streamer. Tear-dropped-shaped cavity visible late in event. Deflections.
Nov 21	325	00:41-13:06	262	061	Nov 21 00:41-08:24	057 ₁ *	250	8	4	Cavity
Nov 22	326	06:14-11:29	082	036	—	—	—	1		Cloud(?) with cavity superposed on fan. Fan is blown out.
										DATA GAP: Nov 22 14:13 to Nov 23 19:45.

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Nov 24	328	17:44-22:34	061	046	Nov 24 19:51-20:00	4221*	060	2	7	Outer loop	Loop/cavity with inner loop/cavity all superposed on southern edge of streamer.
					Nov 24 19:51-20:00	4222†	060	2	7	Outer cavity	Deflections.
					Nov 24 19:51-21:00	3271*	060	3	7	Inner loop	
					Nov 24 19:51-21:00	2361*	063†	3	4	Inner cavity	
Nov 26	330	12:55-15:14	257	045	Nov 26 12:55-13:57	2471*	244†	2	3	Cloud	Faint, diffuse cloud.
Nov 29	333	14:33-18:42	105	034	Nov 29 14:33-15:34	3061*	109†	2	3	Loop	Loop(?)/cavity superposed on streamer. Streamer is partially blown out.
Dec 01	335	17:39-19:13	286	079	Dec 01 17:39-18:29	2901*	300	4	5	Loop	Faint loop/cavity superposed on streamer.
Dec 03	337	09:43-12:44	280	060	—	—	—	—	—	Cloud	Cloud superposed on streamer.
Dec 05	339	~04:00-16:41	259	042	Dec 05 11:58-13:33	1851*	263	3	2	Mound	DATA GAP: Dec 03 14:27 to Dec 04 03:44.
						171 ₂				Core	Slow expansion and swelling of streamer. Fuzzy mound with indistinct cavity becomes visible around streamer at ~10:24. Brighter, structured core is visible from 13:33 until ~16:03. Streamer is blown out. Deflections.
					Dec 05 14:34-15:07	3511*	270	2	5	Core	
Dec 06	340	06:08-07:42	103	055	Dec 06 06:08-06:41	3511*	115	3	6	Loop	Faint loop/cavity and diffuse core. Deflections.
						351 ₂				Cavity	
					Dec 06 06:08-06:41	2931*	115	3	6	Core	
						456 ₂					
					Dec 06 06:08-06:41	2611*	115	3	6		
						298 ₂					
Dec 09	343	03:15-10:58	120	032	Dec 09 04:49-07:58	3452*	124†	7	5	Loop	Loop/cavity with diffuse core. Deflections.
Dec 14	348	02:28-10:27	062	060	Dec 14 02:28-03:09	208 ₁ *	063	4	5	Cavity	DATA GAP: Dec 11 21:21 to Dec 12 15:55.
											Faint loop/cavity and diffuse core in streamer. Streamer is disrupted.
											* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Qual		
Dec 14	348	04:43-15:10	122	037	—	—	—	0	Front at 04:43 only	Two part event: 1. Mound with cavity(?) superposed on fan and streamer. 2. Faint mound with cavity superposed on fan.
		10:27-15:10	~087	~055	Dec 14 11:00-12:35	112 ₁ * 103 ₂	096† 3	7	Cavity	
Dec 16	350	13:06-20:48	135	050	Dec 16 13:06-17:40	041 ₁ * 040 ₂	130 9	4	Mound	Faint mound superposed on streamer. Simultaneous deflections (or brightening) in southwest. Loop/cavity and structured (prominence) core. South edge is superposed on streamer. Streamer is unaffected.
					Dec 17/18 23:13-00:39	262 ₁ *	056†	4	Loop	
Dec 17/18 351/352	23:13-02:13	080	078	Dec 17/18 23:13-00:47	299 ₂	—	—	—		Faint, diffuse mound north of equatorial streamer. Streamer is unaffected.
				Dec 17/18 23:13-00:47	245 ₁ 368 ₂ *	056†	4	7	Cavity	
Dec 20/21 354/355	12:34-05:33	067	054	Dec 20 16:59-23:57	046 ₁ 342 ₂ *	065	13	5	Mound (prominence)	Irregularly-shaped, material with some internal structure. Deflections.
				Dec 20 16:59-23:57	098 ₂ *	—	—	1	Material	
Dec 26	360	20:30-22:05	138	027	—	—	—	—	No clear front	Tongue south of streamer. Partially obscured by pylon shadow late in event.
Dec 26/27 360/361	22:38-05:11	~225	—	—	—	—	—	0	Material	Faint, diffuse mound with cavity(?) superposed on fan. Deflections.
Dec 28	362	00:53-06:10	080	040	Dec 28 01:26-06:10	102 ₁ * 092 ₂	073† 5	3	Mound	Asymmetric, flat-topped loop/cavity with complex, structured core on existing structures. Large region is blown out. Big deflections.
					Dec 28 01:26-03:54	100 ₁ *	080† 2	5	Cavity	
Dec 29	363	14:50-17:59	264	103	Dec 29 14:50-15:15	422 ₁ *	240	9	Loop	Asymmetric, flat-topped loop/cavity with complex, structured core on existing structures. Large region is blown out. Big deflections.
					Dec 29 14:50-15:15	422 ₁ *	240	2	Cavity	

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Date	DOY	Time [UT]	Ctrl PA	Width [deg]	Kinematics			Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts		
Jan 01	001	04:20-15:27	250	060	Jan 01 08:45-12:18 114 ₂ *	077 ₁ 114 ₂ *	240 7	7	Core
Jan 01/02 001/002	22:28-05:26	288	065		Jan 01/02 22:28-02:26 Jan 02 00:02-01:53	110 ₁ 162 ₂ *	295 295	9 5	Cavity
Jan 02	002	02:18-04:45	120	050		135 ₁ *	170 ₂	6	Core
Jan 02	002	22:09-22:42	~122	~050	—	—	—	1	Faint cloud. Equatorial streamer is deflected. Data is streaked.
Jan 02	002	22:16-23:51	288	045	—	—	—	0	No obvious front Faint cloud. Deflections.
Jan 03	003	07:42-13:58	315	040	Jan 03 07:42-09:49 029 ₁ *	310	7	3	Mound
Jan 04/05 004/005	18:21-07:11	130	030		Jan 04/05 21:29-04:11 019 ₁ *	130	11	6	Cavity
Jan 05	005	07:11-19:11	112	035	Jan 05 07:11-10:19 052 ₁ *	110	7	5	Cavity
Jan 07	007	04:33-10:58	073	075	Jan 07 05:42-06:15 Jan 07 05:42-06:15	123 ₁ *	070	2	Loop
Jan 07	007	18:15-22:58	047	010	—	163 ₁ *	070	3	Cavity
Jan 09/10 009/010	12:54-12:26	120	072		Jan 10 01:52-06:26 Jan 10 04:35-08:00	123 ₂ *	124†	6	Cavity
Jan 12	012	20:47-22:54	303	006		096 ₁ *	120	7	Core
						117 ₂			
									DATA GAP: Jan 11 08:50 to Jan 12 17:55.
									Fuzzy tongue superposed on fan.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual		
Jan 14/15	014/015	~08:52-13:07	285	039	—	—	—	—	1	Streamer slowly swells and expands. Cavity may be present. Region is partially blown out.
Jan 16	016	<15:48-23:39	300	036	—	—	—	—	1	DATA GAP: Jan 15 13:15 to Jan 16 15:31. Fuzzy tongue with possible internal structure superposed on streamer. Region is disrupted. Could be related to previous event.
Jan 19/20	019/020	~03:51~23:57	290	040	—	—	—	—	0	Very slow swelling and expansion of helmet streamer. Southern edge of streamer is blown out.
Jan 24/27	024/027	~00:11~02:44	245	050	—	—	—	—	0	Streamer very slowly swells and expands. Expansion continues through data gap on Jan 25. Region is blown out by early Jan 27. Tough to give start/stop times.
Jan 24	024	12:12-15:54	~270	—	—	—	—	—	0	Very faint (large?) cloud superposed on streamers.
Jan 26	026	06:53~13:18	060	015	—	—	—	—	0	DATA GAP: Jan 25 04:19 to 17:46.
Jan 27	027	06:34~20:41	120	048	Jan 27 08:08-12:17	034, [*] 043 ₂	120	8	3	Mound
Jan 27/28	027/028	18:26~07:49	303	045	Jan 27 18:26-20:49	052, [*] 045 ₂	295	8	5	Cavity
Jan 29	029	00:56-03:32	114	028	—	—	—	—	0	Loop/cavity with diffuse core superposed on existing structures. Region is disrupted.
Jan 29/31	029/031	09:34-23:41?	285	039	—	—	—	—	0	DATA GAP: Jan 28 09:23 to 16:24.
Jan 30	030	07:38~23:28	066	029	—	—	—	—	1	Material superposed on streamer swells and expands.
										Extremely slow expansion of material and cavity superposed on streamer.
										Cavity appears in streamer and expands slowly. Streamer expands. Acceleration at ~19:18.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Feb 02	033	04:40-06:56	128	064	Feb 02 04:40-04:57	784 ₁ *	135	3	6	Loop
					Feb 02 04:40-04:57	1002 ₂				Flat-topped(?) loop/cavity with structured (prominence?) core. Deflections.
Feb 02	033	08:22-16:04	250	070	Feb 02 09:56-13:21	593 ₁ *	135	3	5	Core
					Feb 02 09:56-13:21	048 ₁ *	265	8	6	(prominence?) Cavity
Feb 05	036	04:50-09:41	075	—	—	—	—	—	0	No obvious front
					Feb 05 12:58-14:15	032	105	—	—	0
Feb 06	037	13:47-19:11	145	082	Feb 06 14:12-14:37	350 ₁ *	155	3	7	Loop
					Feb 06 13:47-14:37	504 ₂				(Multiple?) loop/cavity and large, highly structured (prominence) core in fuzzy fan.
Feb 09/10	040/041	~12:32>06:04	307	055	Feb 06 14:12-15:30	290 ₁	155	4	4	Cavity
					Feb 06 14:12-15:30	665 ₂ *				Eastern edge of loop has complex structure. Fan is blown out. Large deflections.
Feb 11	042	<16:10-21:01	078	044	Feb 11 16:10-17:00	390 ₁	155	4	9	Core
					Feb 11 16:35-18:26	548 ₂ *				(prominence)
Feb 11	042	<16:10-21:01	078	044	Feb 11 16:10-17:00	128 ₁ *	075	4	6	Loop
					Feb 11 16:35-18:26	133 ₂				Loop/cavity with broad, structured core. Region is blown out. Deflections.
Feb 11	042	<16:10-21:01	078	044	Feb 11 16:10-17:00	107 ₁ *	075	5	6	Core
					Feb 11 16:35-18:26	154 ₂				

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Feature		
Feb 12	043	06:18~12:59	137	044	Feb 12 06:18-08:34	308 ₂ *	138	3	Cavity	Loop/cavity with bright, complex, highly structured (prominence) core in streamer.
					Feb 12 08:34-09:26	231 ₁ *	125†	3	Core (prominence)	Streamer is disrupted. Deflections. Possible concave-outward material.
Feb 12/13	043/044	17:50~08:14	~250	~040	—	—	—	1	Mound	Diffuse mound (or loops/cavities) superposed on streamer. Mound fades from visibility as it moves outward.
Feb 13	044	19:04-21:40	105	030	—	—	—	0	No obvious front	Fuzzy cloud superposed on rays and streamers. Deflections in streamer north of event.
Feb 15	046	09:45-11:11	100	040	—	—	—	0	Front at 09:45 only	Fuzzy loop/cavity superposed on streamer. Event is in one image only.
Feb 18	049	<14:30-16:45	265	050	Feb 18 15:19-16:45	146 ₁ *	280	3	Cavity	DATA GAP: Feb 17 21:39 to Feb 18 14:30. Faint loop/cavity (or cloud). Event began during data gap.
Feb 20	051	04:26~08:52	283	065	Feb 20 04:26-04:34	757 ₁ *	285	2	Loop	Bright loop/cavity in streamer. Visible in rolled west and north images. Region is blown out.
Feb 20	051	04:51-09:00	101	—	—	—	—	0	No obvious front	Fuzzy cloud superposed on existing structures. Possible concave-outward shaped material. Streamers are unaffected. Data is streaked.
Feb 23	054	15:26-19:07	065	050	Feb 23 15:59-17:41	202 ₁ *	070	5	Cavity	DATA GAP: Feb 23 19:15 to Feb 24 02:16. Nearly invisible cloud in east and south images. Data is slightly streaked.
Feb 25	056	16:37-19:12	156	—	—	—	—	0	No obvious front	Faint, fuzzy cloud superposed on streamer. Streamer is unaffected.
Mar 02	062	05:24-08:58	076	027	—	—	—	1	Cloud	DATA GAP: Mar 03 11:30 to 22:04.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	PA	Qual	Feature	
Mar 03/063/064	<22:12-03:19	156	159	Mar 03 22:12-22:45	232 ₁ * 011 ₂	085	3	5	Loop	Huge, broad loop/cavities(?) with two structured interior (prominence) loops/cavities appearing nearly simultaneously at widely different locations. Deflections north of event. Southern structured loop/cavity is surrounded by fuzzy, concentric loops/cavities.	
063/064	22:37-03:19	182		—	—	—	—	0	Southern loop (prominence) at 22:37 only		
063/064	22:45-01:20	105		Mar 03/04 22:45-00:03	259 ₁ * 225 ₂	103†	3	5	Eastern loop (prominence)		
Mar 04	064	05:10-08:10?	275	030	—	—	—	—	0	Front at 05:10 only	Mound superposed on streamer.
Mar 08	068	05:38-~09:02	348?	065?	Mar 08 05:38-06:19	112 ₁ * 124 ₂	320	3	3	Cloud	Irregularly-shaped cloud.
Mar 12	072	~02:12-23:25	131	098	Mar 12 03:02-08:29	059 ₁ * 089 ₂	136†	7	4	First cavity	DATA GAP: Mar 08 09:11 to 18:11.
Mar 13	073	08:42-11:17	288	025	—	—	—	—	0	No obvious front	Fuzzy mound slowly and is followed by a succession of cavities and structured material all superposed on existing structures. Region is partially blown out.
Mar 14	074	03:23-~08:22	253	035	—	—	—	—	0	No obvious front	Swelling and expansion of material superposed on fan.
											Fuzzy mound with interior structure.
											Deflections.
Mar 20/21	080/081	11:34-~10:32	~080	Mar 20/21 13:08-00:23	014 ₁ * 012 ₂	225	9	6	Mound	DATA GAP: Mar 14 20:32 to Mar 15 16:30.	
	080/081	11:34-~10:32	~245	Mar 21 00:23-01:40	138 ₁ * 098 ₂	240†	4	6	Loop	Could be two events: 1. Fuzzy mound followed by sharper, complex (multiple?) loop/cavity at ~22:49. West equatorial streamer is unaffected.	
	080/081	22:49-~10:32	240	040	—	—	—	—	0	Front at 12:35 only	2. Small, fuzzy jet just north of streamer.
	080	12:35-14:33	320	006							

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Date	DOY	Time [UT]	Cent PA	Width [deg]	Trajectory Times [UT]	Speed [km/s]	#Data Pts	Kinematics	Comments		
									PA	PA	
Mar 20/21	080/081	20:59~05:58 080 080/081	095 095 095	085 — 020 ₂	Mar 20/21 21:15-01:16 0291★ 020 ₂	— 111† 4	— 0	Front at 22:41 only Cavity	Could be two events: 1. Diffuse loop/cavity in northeast. Deflections. 2. Cavity rises in east equatorial streamer. Loop becomes visible around cavity. Streamer is disrupted.		
Mar 23/24	083/084	22:57~23:55 ~094	~073	—	—	—	—	No obvious front	Mound superposed on streamer. Mound rises slowly. Deflections.		
Mar 25	085	06:12-08:38	278	055	Mar 25 06:12-07:21	3631★ 433 ₂	3	Tongue	Asymmetric tongue with possible cavity superposed on background corona.		
Mar 25	085	12:11-17:02	246	038	Mar 25 12:11-12:36	3031★ 342 ₂	3	Mound	Mound superposed on corona from ~12:11 until 13:21. Possible loop/cavity visible from ~13:54 until 17:02 in same location.		
Mar 25/26	085/086	21:53-12:07	287	054	—	—	—	Front at 21:53 only	Possible concave-outward, 'U'-shaped material visible in west images from 13:21 to 14:10.		
Mar 26	086	12:52-14:35	080	040	—	—	—	No obvious front	Bright, complex material (multiple loops/cavities?) in 21:53 image only. Region is blown out. Faint, fuzzy material is ejected early Mar 26.		
Mar 26/27	086/087	23:06-15:41	085	060	Mar 27 01:25-07:41	050 ₁ 073 ₂ ★	5	Cavity	Fuzzy cloud (with cavity?) superposed on streamer. Region swelled slowly prior to event. Faint mound superposed on streamer followed by low contrast cavity. Region is partially blown out. Deflections. Brighter material (mound?) is ejected along streamer from Mar 27 06:16 until ~15:41.		
Mar 27	087	12:49-14:39	284	027	Mar 27 12:49-13:13	3281★	280	6	Tongue	Tongue superposed on streamer.	
Mar 28	088	10:38-13:47	060	070	—	—	—	1	Cavity	Fuzzy loop/cavity, with structured (prominence) core superposed on streamer.	
								1	Core (prominence)		

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Speed PA [km/s]	# Data Pts	Qual	Feature	
Mar 29	089	01:02-04:10	233	025	Mar 29 01:02-02:03	2851*	236	3	Mound
									Mound (or loop/cavity) superposed on streamer. Structured material north of mound from ~02:36 until ~04:10. Bright cloud with concave-outward appearance at 03:46 from <238° to 255°. Slow buildup of material on Mar 28.
Mar 30	090	14:58-22:40	274	057	Mar 30 15:51-18:06	113 ₁ 184 ₂ *	280	5	Streamer
									Expansion of streamer followed by loop/cavity. Streamer is disrupted. Could be two events.
Mar 31	091	09:31-16:57	232	055	Mar 31 09:31-12:31	110 ₁ 171 ₂ *	238	6	Loop
		09:31-13:49	—	—	—	—	—	—	1. Faint loop/cavity superposed on corona south of equatorial streamer. Southern leg is near pylon shadow. 2. Irregular material expands and is ejected in and north of equatorial streamer. Streamer is disrupted. Concave-outward shaped material near equator from ~15:15 until 16:57.
		12:56-16:57	270	—					
Apr 05/06	096/097	16:11-01:36	090	060	Apr 05 16:11-17:45	133 ₁ *	077	3	Loop
									Thick, fuzzy loop/cavity (or mound) superposed on corona. Second fuzzy front appears in same location from 00:02 until 01:36. Region is disrupted.
Apr 06/07	097/098	22:32~10:40	225?	—	—	—	—	0	No obvious front
									Cavity becomes visible in streamer at ~16:16 at 2.5R ₀ and remains stationary. Paint mound appears and obscures cavity at 22:32. Southern edge is at 245°. Northern edge is not visible. Fades. Deflections in east sector.
									DATA GAP: Apr 07 10:40 to Apr 08 14:54.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature	
Apr 08	099	16:12-23:18	081	032	Apr 08 16:12-17:54	277 ₁ * 092†	5	6	Loop	Loop/cavity with structured (prominence?) core in streamer. 'Light-bulb' shaped by 17:02. Streamer is blown out. Very faint blob visible at 23:18 at southern edge of event.
					Apr 08 16:29-17:54	235 ₁ * 296 ₂	085†	4	9	
Apr 13	104	18:47-23:45	094	047	Apr 13 18:55-19:20	258 ₁ * 254 ₂	086†	3	3	Several fuzzy blobs in same location on north edge of streamer. Streamer is unaffected. First blob visible from 18:47 until 20:21. Second blob ejected from 20:37 until 23:45.
					Apr 13 20:29-21:38	351 ₁ * 464 ₂	085	3	3	
Apr 14	105	12:26-18:43	065	Apr 14 12:26-13:27	221 ₂				Second blob ejected from 20:37 until 23:45.	First blob
					201 ₁ *	272	2	5	Loop	
Apr 14/15	105/106	20:00-02:17	064	045	Apr 14/15 20:00-20:25	483 ₁ *	061	2	4	Fuzzy loop/cavity and diffuse core.
					Apr 14/15 23:33-00:42	252 ₁ * 296 ₂	085†	3	9	
105/106	23:08-02:17	098	035	Apr 14/15 09:35-15:34	~015					Two piece event: 1. Faint mound (or loop/cavity) at 20:00 followed by highly structured (prominence?) blob at north edge of event in 21:26 image. 2. Fuzzy material from 23:08 until 23:33, followed by a faint loop(?)/cavity with embedded, bright, structured (prominence) loop/cavity.
					~252					
Apr 17	108	09:35-15:34								Narrow, fuzzy tongue.
Apr 17/18	108/109	21:26-04:15	113	035						Faint cloud with possible cavity.
Apr 18	109	02:08-02:41	251	028						Faint, fuzzy cloud.
Apr 18	109	08:49-13:15	~015	~120	Apr 18 08:49-10:24	061 ₁ *	045	2	3	Mound
Apr 18	109	20:57-23:13	278	075	Apr 18 21:30-22:23	329 ₁	280	2	3	Cloud
Apr 19	110	20:20-23:53	340	190						Faint, irregular cloud superposed on streamer.
Apr 20/21	111/112	15:59-09:06	324	017						Very faint, broad cloud. Halo?
Apr 21	112	14:57-18:05	064	048						Fuzzy fan expands slowly. Data dropouts partially obscure front.
										Faint fan (or cloud) superposed on streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	# Data Pts	Feature	
Apr 24	115	02:16~11:57	295	030	—	—	—	0	Too fuzzy
		02:16~08:14	295	—	—	—	—	0	Too fuzzy
		07:40~11:57	295	—	—	—	—	0	Two fuzzy ejections: 1. Tongue superposed on fan. 2. Fainter tongue in same location. Region is disrupted.
Apr 27	118	08:22~18:55	—	—	—	—	—	0	Two fuzzy ejections: 1. Tongue superposed on streamer. Moves non-radially (equatorward). 2. Fuzzy material with brighter jet. Jet visible from 14:58 until 17:13.
		09:22~11:57	300	050	—	—	—	0	DATA GAPS: Apr 29 03:26 to 07:44. Apr 29 08:00 to 21:50.
		13:32~18:55	276	042	—	—	—	0	Faint, fuzzy cloud followed by possible cavity.
May 02	123	~13:05~20:56	242	015	—	—	—	1	Loop/cavity with fuzzy core. Loop front first appears fuzzy and sharpens as it moves outward. Material south of northeast streamer is blown out. Streamer is deflected northward.
May 02/03 123/124		23:39~04:47	119	122	May 02/03 23:39~01:30	379 ₁ *	130	5	Cavity
May 04	125	03:00~10:25	268	095	May 04 06:08~07:17	269 ₁ *	243†	3	Material (prominence?) U-shaped blob at south edge from 05:18 until 05:34. Highly structured, multiple, twisted, hook-shaped (prominence?) material (or loops/ cavities) visible from 05:18 until 07:41 from 215° to 250°. Best seen at 06:08. Faint structures in southeast are deflected.
May 06	127	00:10~01:44	~255	~060	May 06 00:10~00:27	521 ₁ *	258	2	Slightly irregular loop/cavity with diffuse core in streamer. Streamer is mostly blown out. Deflections.
May 06	127	12:18~20:08	136	032	May 06 13:52~17:33	107 ₁	140	6	Loop/cavity and diffuse core in streamer.
						171 ₂ *		7	Loop/cavity shaped by 17:00. Streamer is blown out.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics		# Data Pts	Feature	Comments
					Trajectory Times [UT]	Speed [km/s]			
May 12/13 133/134	05:15-04:46	308	042	—	—	—	—	0	No obvious front
					May 12/13 14:47-02:55	118 ₂ *	290†	11	Bottom of blob (prominence?)
May 17	138	20:16~23:25	103	075	—	—	—	0	Northern part of streamer is blown out.
									Fast loop/cavity with possible core superposed on streamers. Big deflections. Hook-shape in streamer at 135° from 21:34 until 21:42.
May 19	140	06:39-07:40	299	022	—	—	—	0	Faint tongue (or jet).
May 20	141	02:46-13:45	~066	~023	—	—	—	1	Tongue
									Very faint cloud superposed on streamer from 02:46 until ~13:45. Bright tongue in streamer at ~070° from 10:12 until ~13:20.
May 22	143	11:14-14:22	100	110	—	—	—	0	To faint
									Faint cloud superposed on streamers. Possible loop/cavity at south edge of event at 12:23.
May 23/24	144/145	05:54~17:41	092	065	—	—	—	0	Two part event:
	144/145	05:54~10:24	098	075	May 24 10:40-16:40	056 ₁	080	15	1. Irregular cloud of material appears at 05:54. Sharp deflections on north side of event. Core (or blob) ejected from ~19:00 until ~10:24 the next day.
						092 ₂ *			2. Concave-outward, 'U'-shaped material. Region is disrupted.
									Streamer slowly swells, expands and blows outward. Deflections.
May 25	146	all day	~145	~030	—	—	—	0	Fuzzy mound (or loop?) rises slowly in streamer. Streamer is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					PA	Speed [km/s]	Speed # Data Pts	# Data Qual	Feature	
May 25	146	01:40-22:02	~260	~060	—	—	—	0	Too fuzzy	Could be up to three events: 1. Irregular material in fan. Fan is disrupted. 2. Faint mound (or loop/cavity). 3. Loop/cavity and structured (prominence) core. Deflections north of loop.
		01:40-04:48	247	035	—	—	—	1	Loop	
		10:04-11:21	230	050	May 25 14:45-16:19	293 ₁	245	4	Loop	
		14:45-22:02			507 ₂ *	—	—	0	No obvious front	Small, faint cloud from 09:43 until 11:00. Irregular jet from 12:09 until 12:42 in same location.
May 26	147	09:43-12:42	237	015	—	—	—	0	Faint, fuzzy cloud superposed on streamers.	
May 27	148	13:06-13:55	087	063	May 27 13:06-13:55	258 ₁ *	075	3	Cloud	
					492 ₂	—	—	—	Loop	Fuzzy loop/cavity superposed on streamer. Streamer is unaffected.
May 28	149	00:04-03:12	280	050	May 28 00:29-01:46	169 ₁ *	285	3	Loop	
					200 ₂	—	—	—	Cavity	
May 28	149	01:55-08:36	066?	068?	May 28 00:54-02:19	201 ₁ *	285	3	Cloud	
					216 ₂	—	—	0	Too faint	Faint mound (or cloud) superposed on streamer. Could be much wider.
May 29	150	06:25-09:41	075	050	—	—	—	0	No obvious front	
May 29	150	21:40-23:47	078	045	May 29 21:40-22:13	205 ₁ *	075	3	Loop	Fuzzy mound superposed on streamer.
May 30/31	151/152	20:10~11:17	080	070	—	—	—	1	Loop	Fuzzy loop/cavity and core superposed on streamer.
May 31	152	14:25-23:49	103	043	—	—	—	—	Loop	Faint loop/cavity superposed on streamer.
					May 31 14:25-14:58	281 ₁ *	110	2	Loop	Continual ejection of fuzzy clouds of material in same location until mid-May 31.
Jun 01	153	02:57-04:31	102	025	—	—	—	0	Front at 22:15 only	Two part event:
					—	—	—	0	Front at 22:15 only	1. Fuzzy loop/cavity superposed on fan.
					—	—	—	0	Cloud. Deflections late in event.	2. Cloud. Deflections late in event.
					—	—	—	0	No obvious front	Faint, fuzzy cloud in fan. Fan is blown out.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics			Feature	Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	
Jun 01	153	03:22~11:21	300	040	Jun 01 04:23-09:22	218 ₂ *	298†	7	Cavity
					Jun 01 06:39-09:22	084 ₁	300†	5	Core (prominence)
						144 ₂ *			loop-shaped (prominence) core appears.
Jun 01	153	~09:47~12:22	110	030	—	—	—	0	Too fuzzy
Jun 01/05	153/157	~22:27~23:05	~255	~070	—	—	—	1	Small mound. Fuzzy after 09:47 image. Very slow expansion of streamer accompanied by multiple fuzzy clouds and fans.
Jun 02/03	154/155	22:51~07:22	~105	~040	—	—	—	1	Fuzzy cloud superposed on streamer.
Jun 04	156	01:30-03:37	072	025	Jun 04 01:30-02:03	421 ₁ *	075	2	Mound
Jun 05	157	02:34-04:08	074	017	—	—	—	0	No obvious front
Jun 06	158	~00:23-02:13	277	023	—	—	—	0	Fuzzy jet superposed on streamer. Cloud superposed on fan.
Jun 06	158	02:05-04:04	063	035	Jun 06 02:05-02:22	211 ₁ *	065	2	Mound
Jun 06	158	10:12-16:03	252	087	Jun 06 10:12-10:36	515 ₁ *	260	2	Cloud
		10:12-11:37			—	—	—	0	Cloud superposed on streamer.
		12:11-16:03			Jun 06 14:29-15:02	327 ₁ *	250	3	Cloud
						245 ₂			2. Small cavity at 240° followed by a broad, fuzzy mound. Region is disrupted.
Jun 07	159	11:25-14:33	253	095	Jun 07 11:25-12:26	339 ₁ *	250	3	Mound
Jun 07/08	159/160	23:24-04:14	068	045	Jun 07/08 23:49-01:39	133 ₁ *	075	5	Loop
						174 ₂			DATA GAP: Jun 08 04:22 to 13:30.
Jun 08	160	~13:30~22:55	~248	~045	—	—	—	1	Thin loop/cavity and mound-shaped core superposed on streamer.
Jun 09/10	161/162	22:34-00:49	~274	~035	Jun 09 22:34-23:07	509 ₁ *	280	2	Very faint irregular material (or cloud).
									Curved tongue (or cloud) superposed on streamer. South edge is very faint. Could be wider.
									Motion in region prior to event.
Jun 10	162	17:55-21:03	295	020	—	—	—	0	Narrow jet (or tongue) superposed on fan.
Jun 11	163	07:20-09:35	~300	~024	Jun 11 07:20-07:37	334 ₁ *	300	3	Mound superposed on streamer. Northern edge is brighter. Could be wider.
						480 ₂			

† Position of feature was measured along a non-radial line.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					PA	Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature		
Jun 11	163	18:35-19:08	~325	~050	Jun 11 18:43-19:08	479 ₁ *	315	3	7	Loop (prominence?)	Faint, multiple, adjacent, structured (prominence?) loops/cavities and blobs.	
Jun 14/15	166/167	~15:24-~20:18	~115	~050	—	—	—	—	0	No clear front	Fuzzy cloud followed by possible loop/cavity. Evolves slowly and fades.	
Jun 15	167	04:38-06:12	258	065	Jun 15 04:38-05:22	814 ₁ *	250	2	4	Loop	Broad loop/cavity with embedded, complex, concave-outward shaped core and possible cavity.	
Jun 16	168	00:35-07:08	297	035	—	—	—	—	—	Core	Two part event: 1. Expanding mound blows out along streamer. 2. Faint tongue superposed on fan.	
		00:35-03:35	257	025	—	—	—	—	—	—	Fuzzy, faint multiple loops/cavities. Begins as one wide loop. Second more narrow loop appears at southern half of first loop from 11:42 until 22:31. Deflections.	
Jun 16	168	~09:34-~22:31	156	072	Jun 16 09:59-13:15	055 ₁	150	8	5	First loop	Cavity rises in streamer. Streamer is disrupted.	
			173	030	Jun 16 11:42-14:50	102 ₂ *	082 ₁ *	165	5	Southern loop	Thin loop/cavity superposed on streamer. Thin, inner (prominence?) loop/cavity visible at 19:36. Streamer is unaffected.	
Jun 18	170	07:01-~13:17	~295	~050	—	—	—	—	—	—	DATA GAP: Jun 21 05:56 to Jun 22 14:26.	
Jun 19	171	18:03-19:45	237	045	Jun 19 19:12-19:45	316 ₁ *	245	2	6	Cavity	Two part event: 1. Bright, flat-topped (multiple?) loop/cavity with smaller inner (prominence?) loop/cavity at northern part of event. Event is superposed on streamer. Streamer is unaffected. Deflections.	
Jun 23	175	07:40-15:38?	07:40-09:23	278	095	Jun 23 07:40-08:05	463 ₁	295	4	9	Flat loop	2. Very faint mound.
		09:23-15:38?	~280	—	—	—	—	—	0	—	* Preferred fit to the data. This quantity is included in the speed histograms.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics				Comments
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	
Jun 24/25	178/177	early?~19:19	098	065	—	—	—	0	No obvious fronts
Jun 24	176	17:07-18:58	~253	~045	Jun 24 17:07-17:16	840 ₁ *	235	2	Tongue
Jun 25	177	20:47~21:37	31.3	013	Jun 25 20:47-21:03	190 ₁ *	316†	2	Faint mound with brighter, tongue-shaped material following in close proximity. Tongue has evolved into multiple, curved wisps by 18:25.
Jun 26	178	05:11~12:36	073	045	—	—	—	1	Fuzzy jet.
Jun 27/28	179/180	19:57-00:39	~090	~010	Jun 27/28 21:31-00:39	126 ₁ *	091	4	Mound superposed on streamer. Deflections.
						168 ₂		7	Concave-outward, 'U'-shaped material with cavity superposed on streamer.
Jun 29	181	05:17-14:50	100	070	—	—	—	1	Back of cavity in 'U'-shaped material
Jun 30	182	00:14-17:13 00:14-05:50	~025	—	—	—	—	0	Loop
		09:39-10:57	~085	~063	—	—	—	0	Faint loop/cavity and core on south side of streamer. Concave-outward shaped material from 11:41 until 14:17. Second concave-outward feature follows from 13:16 until ~14:50.
		15:22-17:13	~078	~020	—	—	—	1	Three fast ejections in same location.
Jun 30/ Jul 01	182/183	two days	248?	045?	—	—	—	0	1. Faint jet visible from 00:14 until 01:07. Fuzzy material ejected in same location from 02:50 until ~05:50.
Jul 02	184	04:00-08:01	097	035	—	—	—	0	2. Fuzzy, fast-moving mound followed by faint, concave-outward, 'U'-shaped material from 10:32 until 10:57 from 065° to 085°.
								1	3. Faint blob.
								0	Slow expulsion of faint material around fan.
								0	Faint cloud at northern edge of streamer.
								0	Faint cloud at northern edge of streamer.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jul 03/04	185/186	17:05~09:03	067	035	—	—	—	—	1	Slow expansion of material around streamer. Jet (or tongue) ejected from 01:29 until ~07:38. Region is brighter following event.
Jul 05	187	03:27-10:33	302	025	—	—	—	—	0	No obvious front Faint, slow-rising mound. Fades into background brightness levels.
Jul 05	187	12:52-14:42	259	038	Jul 05 12:52-13:41	194 ₁ * 235 ₂	265	4	5	Mound Faint mound (or loop/cavity) superposed on streamer.
Jul 06	188	01:32~20:21	079	053	Jul 06 06:48-09:48	019 ₁ * 015 ₂	080	3	3	Cavity Faint loop/cavity and mound-shaped core superposed on streamer. Deflections.
Jul 10	192	13:58-21:48	050	016	—	—	—	—	0	Two piece event. Both move non-radially.
		13:58-17:06	~088	~015	—	—	—	—	0	1. Faint jet (or fan) at north edge of streamer. 2. Jet (or fan) at south edge of streamer.
Jul 10/11	192/193	23:06-02:14	~128	~028	—	—	—	—	0	No obvious front No obvious front Fan with small, bright blob from 114° to 127° at 23:06. Fan brightens, widens and rises in a non-radial direction. Fan contains some structure by 00:40 and is located from 124° to 142°.
Jul 11	193	19:38-22:44	055	030	—	—	—	—	0	No obvious front Fuzzy jet at north edge of streamer.
Jul 12/13	194/195	17:24~01:39	130	030	—	—	—	—	0	No obvious front Faint, fuzzy, non-radially moving jet (or fan). Jet is located from 113° to 123° at 17:24. By 23:40 it is located from 115° to 145°.
Jul 13	195	~14:20~23:44	074	037	—	—	—	—	0	No obvious front Streamer expands and disrupts. Region is partially blown out.
Jul 14	196	16:41-17:59	261	012	Jul 14 16:41-17:06	181 ₁ * 048 ₂	263	3	4	Blob Small blob (or cloud) superposed on streamer.
Jul 16	198	10:34-13:42	258	067	Jul 16 10:34-11:25	352 ₁ * 524 ₂	263†	4	7	Loop Irregular loop/cavity with partially structured core superposed on streamer.
Jul 17	199	02:31~18:11	070	055	—	—	—	—	0	No obvious front Material in streamer expands outward and poleward. Region is disrupted.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	Feature	
Jul 17	199	02:48~04:13	252	055	Jul 17 02:48-03:04	3661*	250†	2	7	Outer loop	Faint outer loop/cavity with bright, interior loop/cavity superposed on streamer. Streamer is disrupted.
Jul 18	200	00:19~23:41	083	065	Jul 18 00:52-01:45	1961*	090	2	5	Cloud	Could be two events: 1. Cloud with possible cavity superposed on fan north of streamer. Streamer is unaffected. 2. Fuzzy mound superposed on fan in the same location as part one.
Jul 19	201	03:38~05:04	086	022	—	—	—	—	0	Front at 03:38 only	Small mound (or cloud) superposed on fan.
Jul 20	202	07:34~08:35	105	070	Jul 20 07:34-07:43	7721*	085	2	7	Loop	Irregular loop/cavity with structured, loop-like (prominence) core in streamer. Streamer is blown out.
Jul 23	205	~07:06~23:27	~310	~090	—	—	—	—	0	No front	DATA GAP: Jul 21 06:56 to Jul 22 15:25. Faint, wide fan expands outward and poleward. Fan is superposed on streamer. Streamer is unaffected.
Jul 24	206	06:52~08:51	108	075	Jul 24 06:52-07:00	10421*	115	2	7	Loop	Bright loop/cavity with (multiple?) loop-shaped core in streamer. Streamer is blown out. Large deflections. Motion of material in southern leg of event at 05:52.
Jul 25	207	06:06~15:53	080	023	—	—	—	0	Too fuzzy	Three ejections in northeast: 1. Fuzzy tongue at north edge of streamer. Streamer is unaffected.	
		06:06~07:40			—	—	—	1	Mound	2. Wide, fuzzy mound superposed on pre-existing structures. Northernmost streamer is disrupted.	
		10:03~11:37	068	075	—	—	—	0	Too fuzzy	3. Fuzzy tongue south of streamer.	
		12:46~15:53	065?	—	—	—	—	0	Too fuzzy	Northern edge is very tough to measure.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Jul 03/04	185/186	17:05~09:03	067	035	—	—	—	1		Slow expansion of material around streamer.
Jul 05	187	03:27~10:33	302	025	—	—	—	0	No obvious front	Jet (or tongue) ejected from 01:29 until ~07:38. Region is brighter following event.
Jul 06	188	01:32~20:21	079	053	Jul 06 06:48~09:48	019 ₁ * 015 ₂	080	3	Cavity	Faint, slow-rising mound. Fades into background brightness levels.
Jul 10	192	13:58~21:48	050	016	—	—	0	No obvious front	Faint mound (or loop/cavity) superposed on streamer.	
Jul 10/11	192/193	13:58~17:06 18:40~21:48	~088 ~015	—	—	—	0	No obvious front	Faint loop/cavity and mound-shaped core superposed on streamer. Deflections.	
Jul 11	193	19:36~22:44	055	030	—	—	0	No obvious front	Two piece event. Both move non-radially.	
Jul 12/13	194/195	17:24~01:39	130	030	—	—	0	No obvious front	1. Faint jet (or fan) at north edge of streamer. 2. Jet (or fan) at south edge of streamer.	
Jul 13	195	~14:20~23:44	074	037	—	—	—	0	No obvious front	Fan with small, bright blob from 114° to 127° at 23:06. Fan brightens, widens and rises in a non-radial direction. Fan contains some structure by 00:40 and is located from 124° to 142°.
Jul 14	196	16:41~17:59	261	012	Jul 14 16:41~17:06	181 ₁ * 048 ₂	263	3	Blob	Fuzzy jet at north edge of streamer.
Jul 16	198	10:34~13:42	258	067	Jul 16 10:34~11:25	352 ₁ * 524 ₂	263†	4	Loop	Faint, fuzzy, non-radially moving jet (or fan). Jet is located from 113° to 123° at 17:24. By 23:40 it is located from 115° to 145°.
Jul 17	199	02:31~18:11	070	055	—	—	—	0	No obvious front	Streamer expands and disrupts. Region is partially blown out.
										Small blob (or cloud) superposed on streamer.
										Irregular loop/cavity with partially structured core superposed on streamer.
										Material in streamer expands outward and poleward. Region is disrupted.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jul 25	207	07:48-17:45 07:48-11:29	289	058	Jul 25 07:48-08:21	281 ₁ *	290	2	7	Cavity
					—	—	—	—	1	Core
		15:38-17:45	~270	—	—	—	—	—	0	No clear front
Jul 25/26	207/208	21:46-00:54	112	025	Jul 25 21:46-22:35	180 ₁ *	116†	3	8	Blob (prominence)
					166 ₂					
Jul 26/27	208/209	~00:02~16:04	270?	—	Jul 27 09:48-12:03	066 ₁ *	259	5	5	'U'-shaped blob
					067 ₂					
Jul 28/29	210/211	09:51-01:39	247	085	Jul 29 09:51-11:41	207 ₁ *	260	5	7	Loop
					262 ₂					
		23:24-01:39	~265	~030	Jul 28/29 23:49-00:14	327 ₁ *	261†	3	7	Loop
					400 ₂					
Jul 31/ Aug 02	213/215	09:39~18:27	213	09:39-11:12	~045	—	—	—	0	Too fuzzy
					213	12:46-15:55	075	020	Jul 31 12:46-14:29	087 ₁ *
						024 ₂				Mound
										Could be six events:
										1. Fuzzy fan. Moves non-radially.
										2. Narrow, bright mound.
										3. Second, narrow mound. Deflections.
										4. Fuzzy cloud with internal structure.
										5. Tongue (or mound) with internal structure at north edge of streamer (or fan).
										6. Cloud in streamer with structured wisp of (prominence?) material at southern leg.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Aug 01	214	20:23-23:31	238	065	Aug 01 20:23-21:57	1541*	233	2	7	Loop	Fuzzy, helmet-shaped loop/cavity (or mound) superposed on streamer.
Aug 01	214	21:32-23:06	123	045	—	—	—	—	0	Too fuzzy	Fuzzy tongue in and south of streamer. Streamer is disrupted.
Aug 02/03	215/216	18:11~1:36 18:11~20:09	273	045	Aug 02 19:20-20:09	1821*	277	3	5	Mound	Two ejections: 1. Fuzzy, irregular material and mound superposed on streamer from ~18:11 to ~20:09. 2. Cloud.
Aug 04	217	10:46-13:54	083	045	—	—	—	—	0	Too fuzzy	Faint cloud superposed on south edge of streamer. Streamer is unaffected.
Aug 06/07	219/220	17:27~01:34	080	050	—	—	—	—	0	Too fuzzy	Elongated mound with internal structure superposed on southern part of streamer. Streamer is unaffected.
Aug 08	221	09:10-13:11	258	065	Aug 08 10:03-10:52	2931*	270	4	9	Loop	Thick loop/cavity with amorphous core superposed on streamer. Region is disrupted.
Aug 10	223	13:44~20:34	267	055	—	—	—	—	1	Loop	Fuzzy loop/cavity (or mound) superposed on fan. Fan is unaffected.
Aug 14/15	227/228	14:54~08:08	268	065	—	—	—	—	1	Mound	Elongated mound. Cavity and core become visible at ~17:09. Core becomes amorphous. Base of core becomes concave-outward, 'V'-shaped from 03:51 until end of event.
Aug 15	228	06:34-08:50	114	068	Aug 15 06:34-06:59	4161*	115	4	7	Loop	Deflections.
					Aug 15 06:34-06:59	5112					Bright, flattened loop/cavity with highly structured (prominence) core in streamer.
					Aug 15 06:34-06:59	3921*	115	4	7	Cavity	Faint cloud surrounds bright loop. Could be part of loop-structure. Streamer is disrupted.
					Aug 15 06:34-06:59	4552				Core	(prominence)

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments				
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature						
Aug 16	229	12:29-13:54	060	050	—	—	—	0	Too fuzzy	Faint cloud (or loop/cavity) superposed on streamer.					
Aug 16	229	13:02~23:43	120	050	Aug 16 13:02-14:44	198 ₁	112	4	7	Cavity	Two part event: 1. Loop/cavity and highly structured, loop-shaped (prominence) core in streamer. Region is disrupted.				
					Aug 16 13:54-14:44	141 ₁ *	110†	3	9	Core (prominence)					
					20:11~23:43	141 ₂	—	—	0						
Aug 18	231	~10:12~21:27	~316	~032	—	—	—	1		Mound (or loop/cavity) superposed on streamer. Fades into background brightness levels.					
Aug 21	234	02:19~10:09	055?	130?	—	—	—	0	Too faint	DATA GAP: Aug 19 10:08 to 21:58.					
										Broad, faint material in east and north. Could be wider. Possible halo. Faint material appears (ejected?) near western equator from ~08:18 until end of event.					
Aug 21	234	19:16-22:24	105	060	Aug 21 19:16-20:06	176 ₁ *	125	3	6	Mound	Faint mound (or loop/cavity) superposed on south side of streamer. Streamer is unaffected.				
Aug 22	235	01:32~14:29	01:32~08:30	112	080	Aug 22 01:32-03:15	158 ₁ *	107	3	3	Cavity	Three part event: 1. Thick loop/cavity with structured (prominence?) core in streamer.			
						059 ₂					2. Second cavity with structured (prominence?) core in streamer. Streamer is blown out.				
					06:14~10:56	~100	~020	Aug 22 06:14-08:30	136 ₁ *	104	5	Second cavity	3. Faint loop/cavity.		
					10:56-14:29	130	033	—	—	—	Loop				

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Aug 23	236	08:53-10:35	117	125	Aug 23 09:09-09:42	1035 ₁ * 1186 ₂	095	3	7	Loop
										Structured jet (prominence?) at 118° visible from 08:53 to 10:35. Jet is followed by a broad, faint loop/cavity from 09:09 until 09:42. Additional structured (prominence?) material is visible at 09:17 at 118° and at 128° at 09:42. Northern edge of broad, faint loop is superposed on streamer. Streamer is unaffected.
Aug 23	236	13:43-15:58	048	067	Aug 23 13:43-14:16	267 ₁ * 333 ₂	061†	3	9	Loop
										Thin, irregular loop/cavity with possible core at northern part of loop. Deflections.
Aug 23/24	236/237	~15:09~02:15	078	065	Aug 23 16:51-17:24	577 ₁ *	086	3	5	Outer loop
										Bright, flattened loop/cavity with structured, interior (prominence) loop/cavity in streamer.
					Aug 23 15:58-17:24	781 ₂ *	085	4	6	Outer cavity
										Streamer is blown out. Big deflections. Blob of material is ejected in streamer south of event from 100° to 132° from 20:32 until 21:24. Concave-outward material is visible at 100° at 00:32. Moves outward and southward until ~02:15.
										DATA GAP: Aug 24 08:39 to Aug 25 21:58.
Aug 26/27	239/240	~01:47-10:41	108	065	—	—	—	—	0	No obvious front
	239	~01:47~05:48								1. Faint cloud in north edge of streamer. Fades into background brightness levels.
	239/240	13:38~10:41			—	—	—	—	0	No obvious front
										2. Indistinct loop/cavity with probable core in streamer. Streamer expands and blows out.
Aug 26	239	15:12-17:27	335	100	Aug 26 15:12-16:54	210 ₁ * 228 ₂	314	5	8	Loop
										Faint, wide, fuzzy, irregular loop/cavity.
Aug 29/30	242/243	~02:59~13:26	~060	~060	—	—	—	—	0	No obvious front
										Slow expansion of faint material on and south of streamer. Deflections.
Aug 30	243	13:59~16:17	067	025	Aug 30 14:51-15:24	298 ₁ * 283 ₂	070†	3	5	Mound
										Narrow, bright mound (or jet) superposed on small streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	# Data Pts	Qual	Feature	
Sep 01	245	05:52~08:08	~315	~020	—	—	—	0	Front in one image only	Jet (or fan) at 05:52 only. Very faint material may be ejected around streamer from 250° to 290°.
Sep 01	245	12:24~15:33	045	050	Sep 01 12:24~15:33	095 ₁ *	052	3	Cavity	Loop/cavity with core superposed on streamer.
Sep 01	245	19:05~21:40	065	050	—	—	—	1	Cavity	Bright, irregularly-shaped loop/cavity superposed on streamer. Streamer is disrupted. Deflections.
Sep 07	251	~00:15~19:03	~255	~070	—	—	—	1	Cavity	DATA GAP: Sep 02 07:12 to Sep 03 17:23. Faint material rises slowly at south edge of streamer. Loop(?)/cavity in same location from ~11:13 until ~19:03. Expansion and brightening in region began Sep 05.
Sep 08/09	252/253	~02:52~10:20	232	035	—	—	—	0	No obvious front	Slow expansion of helmet streamer. Streamer is disrupted between 18:41 and 23:23. Fuzzy material superposed on streamer at 08:55 on Sep 09.
Sep 08/09	252/253	16:50~22:36	020	040	—	—	—	0	Streamer	Streamer expands slowly outward. Small, low-contrast cavity in streamer blows out. Artifact obscures event.
Sep 08	252	17:15~22:58	~300	~040	—	—	—	1	Cavity	Mound
Sep 09/10	253/254	21:18>14:15	250	040	Sep 10 02:00~14:15	008 ₁ *	251†	9	Cavity	Structured cloud with possible cavity from 21:18 until ~01:19. Loop/cavity and structured core are ejected from ~02:00 until >14:15. Visible in south images. Loop is located from 242° to 268°. Data gap follows and lasts until Sep 11.
										DATA GAP: Sep 10 15:41 to Sep 11 14:54.

† Position of feature was measured along a non-radial line.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Sep 14	258	03:06-05:32	308	045	Sep 14 03-06-04:39	365 ₁ *	300	2	9	Loop	Loop/cavity superposed on streamer (or fan). Loop is flat-topped at 04:39. Region is blown out.
Sep 14/15	258/259	13:46-02:34	082	055	Sep 14 14-11-15:04	506 ₁ *	072	2	7	Cavity	Loop/cavity and highly structured (prominence) core. Loop is 'light-bulb' shaped from 15:04 until 15:37. Big deflections. Loop/cavity and core are out of the field of view by 16:29. A series of ejections of irregularly-shaped material follow at 16:34, 20:02 and 01:00.
Sep 14	258	15:04-19:37	126	063	Sep 14 15-04-17:19	256 ₁	132	6	7	Cavity	Loop/cavity with highly structured, loop-shaped (prominence) core in streamer. Deflections. Streamer is blown out.
Sep 14/15	258/259	23:35-13:32	107	021	Sep 14 15-28-17:19	115 ₁ *	132	6	9	Core (prominence)	Cavity rises slowly (over twelve hours) in streamer. Concave-outward material appears from 09:51 until 12:59. Streamer was buffeted by last two east events. Region is blown out.
Sep 15	259	02:34-07:17	016 ₁ *	105	Sep 15 10-24-12:06	148 ₁ *	106†	4	5	Concave-outward material	Streamer expands slowly. Streamer is disrupted following data gap on Sep 18. Deflections. DATA GAPS: throughout Sep 18 due to Comet Machholz observations.
Sep 17	261	06:06>21:21	~067	~025	—	—	—	—	0	Too fuzzy	Streamer expands slowly. Deflections. Region is disrupted.
Sep 19/20	263/264	~06:14-11:58	268	065	—	—	—	—	0	Too fuzzy	Broad cloud visible from 10:03 until 11:28. Could be wider. Fuzzy, narrow material is ejected from 21:44 until 23:26 at 055°.
Sep 19	263	10:03-23:26	~027	~115	Sep 19 10-03-11:28	289 ₁ *	064	4	5	Cloud	Structured mound (or tongue). Northern edge is curved at 01:10.
Sep 21	265	00:21-02:03	~255	~030	—	—	—	—	0	Too fuzzy	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Sep 21/22	265/266	21:15-19:02	255	050	Sep 21/22 22:49-00:39	206 _{1*} 143 ₂	252	5	6	Loop	Loop/cavity with loop-shaped core in streamer from 21:15 until ~03:14. Additional, brighter material is ejected from ~05:13 until ~19:02. Could be concave-outward, 'U'-shaped late in event. Deflections.
Sep 22	266	00:31-03:06	060	060	Sep 22 00:31-02:13	640 _{2*}	047	3	5	Cavity	Big loop/cavity with highly structured, inner (prominence) loop/cavity in streamer. Streamer is blown out. Big deflections.
Sep 22	266	09:55-12:30	080	050	Sep 22 01:24-03:06	386 _{1*} 384 ₂	061	3	7	Inner loop (prominence)	Too fuzzy
Sep 22	266	17:03-20:11	093	045	Sep 22 17:03-17:52	416 _{1*} 527 ₂	105	3	5	Loop	Irregularly-shaped cloud at north edge of streamer. Streamer is disrupted.
Sep 23	267	18:06-20:21	095	080	—	—	—	—	1	—	Irregularly-shaped loop/cavity with structured (prominence?) core superposed on streamer.
Sep 24	268	13:34-20:43	270	040	Sep 24 13:34-14:52	382 _{1*} 437 ₂	280	3	5	Mound	DATA GAP: Sep 22 21:00 to Sep 23 14:58. Irregularly-shaped cloud superposed on streamer or fan. Deflections.
Sep 25	269	<01:24-03:40	~092	~095	—	—	—	—	0	Missed front	Mound (or loop/cavity) superposed on streamer.
Sep 25	269	03:15-05:14	277	025	Sep 25 03:15-03:48	545 _{1*}	275	2	5	Cloud	East equatorial corona is blown out between Sep 24 23:06 and Sep 25 01:24. We probably missed the front of the event. Fuzzy material is ejected until 03:40. Region is blown out. Large deflections.
Sep 25	269	11:21-20:36	~239	~078	Sep 25 11:21-12:30	353 _{1*} 353 ₂	240	3	7	Cloud	Cloud (or jet) on north side of streamer.
Sep 27	271	16:27-18:17	125	080	Sep 27 16:27-16:52	794 _{1*} 1041 ₂	125	3	9	Loop	Loop(cavity) and structured core superposed on streamer.
											Loop/cavity with structured core superposed on streamer. Northern half of loop is brighter. Streamer is blown out. Large deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual	
Sep 28	272	~14:38-17:46	058	075	Sep 28 15:31-15:58	381 ^{1*}	046	3	6	Loop
Sep 28	272	17:05-19:20	264	048	Sep 28 17:05-17:55	364 ^{1*}	255	3	6	Loop
Sep 28/29	272/273	>22:36-01:28	137?	035?	—	—	—	—	0	Missed front streamer is disrupted. Deflections.
Sep 30	274	19:38-20:53	~153	~045	Sep 30 19:36-20:01	398 ^{1*}	145	3	7	Loop
Oct 01	275	07:43?-08:08	256	048	Oct 01 08:00-08:08	413 ^{1*}	259 [†]	2	5	Loop
Oct 04	278	00:27-~05:18	228	052	—	—	—	—	1	Faint, fuzzy loop/cavity with fuzzy core south of streamer.
Oct 05/06	279/280	20:25-~02:08	115	040	Oct 05 21:26-23:33	222 ¹	124 [†]	6	5	Cavity
Oct 05/06					Oct 05 21:26-23:33	342 ^{2*}	124 [†]	7	8	Inner loop (prominence)
Oct 06	280	00:26-~08:15	~277	~055	—	—	—	—	0	Too fuzzy
Oct 06	280	16:05-18:28	290	040	Oct 06 16:05-16:54	239 ^{1*}	290	3	6	Outer loop
					141 ²					Multiple, concentric loops/cavities superposed on existing structures.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Oct 08	280	17:39-18:28	242	055	Oct 08 17:39-18:03	4681*	245	2	6	Mound
Oct 08										Faint mound (or thick loop/cavity) with some internal structure superposed on rays (or streamers). Event at 18:12 immediately follows.
Oct 08	280	18:12-20:46	245	070	Oct 08 18:12-19:13	4781*	240	3	8	Loop
						5512				Bright loop/cavity with fuzzy core superposed on previous event. Loop flattens between 19:13 and 19:37. Region is blown out. Deflections.
Oct 07/08	281/282	20:23-03:04	059	033	Oct 07 20:23-22:30	0971*	050	4	5	Loop
						1482				Loop/cavity and core superposed on fan. Core fills most of cavity region. Fan is disrupted. Concave-outward, 'V'-shaped, structured wisp of material from 01:05 until 01:38. Moves non-radially (equatorward).
Oct 08/09	282/283	21:51~01:59	235	040	Oct 08 22:07-23:16	2401*	235	3	6	Loop
						3702				Fuzzy loop/cavity with twisted, structured, coiled (prominence?) core superposed on fan or streamers. Background corona is disrupted.
Oct 09	283	16:13-18:03	119	042	Oct 08 21:51-22:51	1911*	235	2	7	Cavity
						—	—	0	Too faint	Faint cloud (or mound) superposed on streamers.
Oct 10/11	284/285	12:33~23:14	112	055	Oct 10 17:05-21:02	0411	105	7	3	Cavity
						0602*				Fuzzy loop becomes visible around slowly rising cavity in streamer. Material moves ahead of loop through streamer. Streamer is disrupted. Could be two fuzzy events:
Oct 10	284	12:58-20:21	12:58-14:32	~240	~020	—	—	—	0	No clear front
			~18:39~20:21	—	—	—	—	—	0	Too fuzzy
										1. Fuzzy fan superposed on existing rays. 2. Very faint cloud in same approximate location as part one.
Oct 12	286	04:12~06:38	070	020	—	—	—	0	Too fuzzy	Fuzzy, narrow cloud (or jet) superposed on streamer. Region south of event is disrupted.
Oct 12	286	05:46-07:28	~252	~047	—	—	—	—	0	Missed front
										Irregularly-shaped material superposed on rays. Probably missed the front between 04:20 and 05:46. Large deflections. Region is disrupted.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Oct 12	286	12:54~16:01	080?	020?	—	—	—	0	No obvious front	Very faint, narrow jet with possible concave-outward, 'U'-shaped material from ~070° to ~090°. Motion (ejection?) of material on either side of jet.
Oct 12	286	16:18~22:42	~008	~085	—	—	—	0	No obvious front	Irregularly-shaped cloud (or mound) spans north sector. Could be wider.
Oct 12	286	22:25~22:58	122	055	Oct 12 22:25~22:58	2631*	119	2	Front at 22:25 only Inner loop (prominence)	DATA GAP: Oct 12 19:34 to 22:17. Flattened loop/cavity with highly structured, inner (prominence) loop/cavity superposed on streamer. Event has concave-outward shape between loop top and inner (prominence) loop. Streamer is disrupted.
Oct 13	287	01:49~11:13	~006	~063	Oct 13 01:49~06:31	0471	355	4	Loop	Faint, fuzzy loop/cavity with fuzzy mound-shaped core over north pole.
Oct 13	287	03:07~12:30	~095	~070	—	—	—	0	Too fuzzy	Fuzzy, irregularly-shaped material (or cloud) superposed on and north of streamer. Streamer is disrupted.
Oct 13/14	287/288	~17:12~02:35	112	065	—	—	—	0	No obvious front	Blob (or cloud) in streamer. Streamer expands outward. Additional material (and cavity?) is ejected in same location from 23:27 until 02:35. Streamer is disrupted.
Oct 13	287	20:44~22:26	248	065	Oct 13 20:44~21:01	9131*	255	2	Cloud	Fuzzy cloud with embedded, structured, coiled (prominence?) material superposed on rays. Region is disrupted. Large deflections.
Oct 14	288	07:08~07:33	065	040	Oct 14 07:16~07:33	3881*	075	3	Loop	Loop/cavity superposed on rays. Region is disrupted. Deflections.

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Date	DOY	Time [UT]	Cent PA Width [deg]	Kinematics					Comments	
				Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual		
Oct 15	289	13:16~22:39	050	100	Oct 15 13:16-14:34	4581*	069†	2	5	Loop
Oct 15	289	18:14?~23:49	~250	~070	Oct 15 19:07-20:57	2331*	255	5	5	Outer loop
Oct 16	290	14:18~23:17	086	068	Oct 15 20:57-22:31	0971*	250	5	5	Inner loop
Oct 16	290	~16:17~21:43	~203	~045	—	—	0	No clear front	Loop/cavity superposed on streamers. Material is ejected in streamer at south edge of loop and overtakes the loop. Faint, concave-outward, 'U'-shaped material is ejected from 20:34 until the end of the event.	
Oct 16/17	290/291	22:07~03:06	285	040	Oct 16 22:32-23:58	3421	283	3	6	Loop
Oct 17	291	00:59-04:32	067	025	Oct 16 23:25-23:58	3161*	283	2	6	Second loop
Oct 17	291	05:32-15:03	075	040	Oct 17 05:32-07:48	4282*	077	6	4	Loop
Oct 17	291	15:36~18:44	050	012	—	—	—	0	No obvious front	
Oct 17	291	21:10~23:25	250	030	Oct 17 21:10-21:35	7021*	247	2	5	Loop

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Date	DOY	Time [UT]	Cent PA [deg] [λ - φ]	Kinematics					Comments	
				Width	Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	
Oct 19	293	13:59~17:07	~276	~070	—	—	—	—	0	No obvious front
Oct 20	294	06:03~07:53	~147	~026	Oct 20 06:03~07:20	146 ₁ *	147†	5	9	Inner loop (prominence)
Oct 20/21	294/295	23:32~21:18	112	045	Oct 21 00:16~00:41	094 ₁ *	107	2	4	Cavity
Oct 21	295	08:05~10:20	~287	~035	—	—	—	0	Too faint	Very faint cloud superposed on existing structures. Could be wider. Deflections.
Oct 21	295	11:21~13:28	265	030	—	—	—	1		Faint, fuzzy loop/cavity superposed on background rays and streamers.
Oct 21/22	295/296	21:18~08:33	~077	~045	—	—	—	0	No obvious front	Loop(?)//cavity with inner (loop-shaped?) core superposed on and north of fan (or streamers). Ejection of faint (concave-outward?) material from ~03:00 until ~12:15. Event may be wider.
Oct 22	296	20:05~23:13	272	055	—	—	—	0	Too faint	Faint, fuzzy loop/cavity. Deflections.
Oct 23	297	18:49~21:02	~290	~010	—	—	—	0	No obvious front	Jet.
Oct 24/25	298/299	19:17~01:33	347	045	—	—	—	1		Fuzzy loop/cavity superposed on rays. Western leg is brighter. Deflections.
Oct 24/25	298/299	22:08~11:29	~042	~055	—	—	—	1		Faint, irregular, wispy cloud superposed on streamer. Faint material ejected until ~11:29.
Oct 25	299	20:11~23:52	242	055	—	—	—	0	Too faint	Cloud superposed on streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature		
Oct 26	300	01:09~21:22	357	055	—	—	—	0	Too fuzzy	Polar streamer (or ray) expands outward. Cloud (or loop/cavity) is visible by 08:59. Faint material ejected until ~21:22.	
Oct 27	301	~02:29~05:03	135	050	Oct 27 02:37-05:03 310 ₂ *	172 ₁ 140	4 3	Loop	Faint, fuzzy loop/cavity with structured, interior (loop-shaped) core superposed on streamer. Ends in data gap. Region is disrupted after data gap.		
Oct 27	301	04:54>05:11	305	040	Oct 27 04:54-05:11 141 ₁ *	305	2	4	Mound	Mound superposed on rays. Ends during data gap. Changes in all sectors.	
Oct 29	303	02:51~13:40	105	030	Oct 29 02:51-03:51 Oct 29 02:51-03:51	077 ₁ * 087 ₁ *	105 105	2 2	Cavity Core	DATA GAP: Oct 27 05:11 to 22:07. Fuzzy loop/cavity with bright, tongue-shaped core on faint fan at 02:51. Tongue stalls. Loop/cavity evolve and fade after 03:51. Narrow fan (or jet) is ejected at 135° from 11:40 until 13:14. Ray may have been ejected before event at 01:30 at 135°.	
Oct 29/30	303/304	19:29~02:26	109	043	Oct 29 19:29-21:12 Oct 29 20:19-21:45	342 ₁ 479 ₂ * 245 ₁ * 273 ₂	108	5	Cavity Kink in core	Bright (multiple?) loop/cavity and core superposed on tongue from previous event. Core contains embedded, twisted (prominence?) structures. Loop is 'light-bulb' shaped from 20:19 until ~21:45. Large deflections. Region and tongue are blown out.	
Oct 30	304	~08:00~19:06	115	050	Oct 30 08:33-13:23 Oct 30 11:33-16:23	066 ₁ 094 ₂ * 043 ₁ * 023 ₂	115†	10	5	Outer loop Inner loop	Loop/cavity (or arcade of loops/cavities) with inner loop/cavity superposed on faint rays.
Oct 30/31	304/305	19:30~03:37	~155	~030	Oct 30 21:04-22:38	031 ₁ *	155	2	6	Loop	Faint loop/cavity just south of previous event. Possible core at 01:38. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	PA	# Data Pts	Qual	
Oct 31	305	09:52-10:52	351	058	Oct 31 09:52-10:52	283 ₁ *	332 ₁	3	6	Loop
					—	—	—	—	1	Cavity
Nov 01	306	11:37-13:19	080	080	Nov 01 11:37-12:02	577 ₁ *	060	3	9	Loop
					760 ₂					Fuzzy, broad, 'light-bulb' shaped loop/cavity with structured, inner (prominence?) loop/cavity. Inner loop is in close proximity to outer loop and is also 'light-bulb' shaped. Additional faint material is visible under inner loop. Region is disrupted. Deflections.
Nov 01	306	17:52-19:35	085	090	Nov 01 17:52-18:17	170 ₁ *	070	3	6	Mound
					327 ₂					Faint mound with thin, dark, embedded feature (or loop/cavity) superposed on streamers.
Nov 01/02	306/307	22:42~01:50	072	053	Nov 01 18:09-18:42	308 ₁ *	070	3	7	Dark feature
					177 ₂					Structured cloud with several bright blobs.
Nov 02	307	05:31-06:40	248	035		—	—	—	1	Cloud
Nov 02	307	13:12~14:37	115	060		—	—	—	0	No obvious front
Nov 02/03	307/308	17:20~04:50	~083	~055		—	—	—	1	Mound
										Faint, fuzzy, mound superposed on streamers. Deflections north of event.
Nov 05	310	02:19-08:34	063	055	Nov 05 04:45-05:18	139 ₁ *	063	2	5	Outer cavity
					Nov 05 04:45-05:18	227 ₁ *	061	3	5	Inner loop
Nov 05	310	10:16~17:24	121	049	Nov 05 11:08-12:34	115 ₁ *	120	4	5	Cavity
					090 ₂					Cavity with structured, inner core rises in streamer. Irregular loop becomes visible around cavity. Streamer is blown out. Deflections.
Nov 06	311	05:46-08:02	094	072	Nov 06 05:46-06:02	343 ₁ *	097	3	6	Loop
Nov 06	311	10:36-12:01	063	035		—	—	—	1	Material
										Faint material ejected in northern leg of previous loop. Could be part of previous event.

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Date	DOY	Time [UT] [deg]	Cent PA Width	Kinematics						Comments
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Nov 06	311	15:09-17:24	064	053	Nov 06 15:09-15:33	495 _{1*}	045	3	6	Cloud
Nov 06	311	21:57-23:47	~222	~045	—	—	—	0	Too faint	Flat, bright, tilted, filled cloud superposed on rays. Deflections.
Nov 06/07	311/312	22:13~02:39	100	060	Nov 06 23:06-23:39	137 _{1*}	095†	2	7	Back of inner loop
Nov 08	313	07:06-08:31	<102	>032	—	—	—	0	Edge at 07:06 only	Fuzzy loop/cavity with interior loop/cavity.
Nov 08	313	13:12-16:03	~306	~137	—	—	—	0	No obvious front	Loop/cavity at northern edge of streamer. Deflections.
Nov 09	314	11:58~15:39	295	040	Nov 09 11:58-13:32	277 ₁	295†	6	9	Outermost cavity
					Nov 09 11:58-13:32	304 _{1*}	295	5	7	Inner loop
Nov 10	315	06:43-14:41	089	107	Nov 10 06:43-07:08	773 _{1*}	074	4	9	Material (prominence) (Not leading edge)
					Nov 10 06:43-07:08	659 ₂				Beautiful, highly structured (prominence) material. Could have missed coronal front of event between 05:43 and 06:43 images. Material ejected on both sides of (prominence) material. Small streamer at northern edge of event is disrupted.
Nov 10	315	10:41-13:32	312	067	Nov 10 10:41-12:14	321 ₁	305	6	5	Loop
					Nov 10 10:41-12:14	443 _{2*}				Flat-topped loop/cavity with probable (indistinct) core superposed on streamer. Loop gets flatter (dimpled) as it moves outward.
Nov 11	316	01:54-03:20	022	095	—	—	—	0	Front at 01:54 only	Wide mound superposed on existing structures.
Nov 12	317	16:43-18:33	~037	~065	Nov 12 16:43-16:59	562 _{1*}	041	2	5	Mound
Nov 13	318	06:39-14:53	028	065	—	—	—	0	No obvious front	Faint mound superposed on rays.
					Nov 12 16:43-16:59					Faint cloud superposed on rays.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Nov 13/14	318/319	20:59~00:07	259	082	Nov 13 21:16-22:17	360 ₁ *	230	4	7	Loop
					Nov 13 21:24-22:17	390 ₂				Loop/cavity with fuzzy, loop-shaped core superposed on streamer. Core contains highly structured (prominence) features at southern edge. Streamer is blown out. Deflections.
					Nov 13 22:17-23:51	443 ₁ *	245	3	7	Cavity
Nov 13/14	318/319	23:51-01:24		~255	~090	Nov 13/14 23:51-00:40	485 ₁ *	255	4	Loop
										Loop/cavity follow close behind core from previous event. Southern edge of loop is not visible.
Nov 14	319	00:15-14:10		~320	~060					No obvious front
Nov 14	319	12:28-14:02		~090	~040					Missee front
Nov 14	319	15:28-16:17		~020	~080					Faint, irregular cloud near streamer. Deflections. Could have missed the front.
Nov 14/15	319/320	16:01-02:41		263	075		—	—	0	Front at 16:01 only
										Faint cloud (or loop/cavity) superposed on rays.
Nov 15/16	320/321	19:36~16:45		307	045	Nov 15 19:36-21:18	188 ₁ *	300	5	Cavity
										Faint loop/cavity and fuzzy (loop-shaped?) core superposed on streamer. Concave-outward, 'U'-shaped material is visible from ~03:41 until ~16:45. Streamer is blown out. Data is streaked.
Nov 15/16	320/321	23:00-03:25		358	065		—	—	0	No obvious front
										Mound (or loop/cavity) over north pole. Some structure in western leg of event. Data is very streaked.
Nov 16	321	20:45~22:35		248	065					No obvious front
Nov 17	322	14:30-15:22		092	045					Irregularly-shaped material superposed on streamers. Region is disrupted. Data is streaked. Cloud superposed on streamer. Motion of ray at 130°. Data is streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual	Feature	
Nov 18	323	03:52-07:33	060	056	Nov 18 03:52-04:34	331 ₁ *	062	3	9	Cavity	Loop/cavity with structured core. Data is streaked.
Nov 19	324	00:28-17:40-322	~035	—	—	—	—	—	0	No obvious front	Slow expansion and disruption of streamer. Streamer is column-shaped by the end of the event.
Nov 19	324	10:08-19:14	040	050	—	—	—	—	0	No obvious front	Very faint cloud north of streamer.
Nov 19	324	11:33-13:23	~105	~020	—	—	—	—	0	No obvious front	Faint, fuzzy, narrow jet.
Nov 19	324	20:39-23:55	045	060	Nov 19 20:39-21:12	521 ₁ *	042	3	5	Loop	Loop with irregularly-shaped cavity superposed on streamer.
Nov 20	325	09:18-16:58	050	060	Nov 20 10:43-12:17	116 ₁ *	060	4	5	Cavity	Faint loop/cavity with complex (multiple?) core superposed on streamer. Data is streaked.
Nov 20/21	325/326	16:50-00:39	282	035	Nov 20 18:48-19:57	305 ₁ *	280	3	5	Loop	Faint, irregular cloud superposed on rays. Brighter, evolving loop/cavity follows cloud from ~18:24 until end of event.
Nov 20/21	325/326	20:30-02:37	230	060	Nov 20 20:30-23:54	113 ₁	230	8	5	Cavity	Data is streaked.
Nov 20	326	03:55-08:28	~144	~028	Nov 20 20:30-23:54	202 ₂ *	—	—	—	No obvious front	Cavity rises in helmet streamer. Loop becomes visible around cavity. Cavity is followed by a bright, loop-shaped core. Core becomes concave-outward, 'V'-shaped. Streamer is blown out.
Nov 21	326	03:55-08:28	~144	~028	Nov 20 20:30-23:54	118 ₁	230	8	5	Core	Faint cloud south of small streamer.
Nov 21/22	326/327	23:21-01:39	252	045	Nov 21/22 23:21-00:05	315 ₁ *	255	2	3	Mound	Fuzzy mound (or loop/cavity) superposed on fan. Faint cloud superposed on streamer.
Nov 22	327	14:50-16:24	~055	~030	—	—	—	0	Too faint	Faint loop/cavity with partially structured (prominence?) core north of fan. Deflections.	
Nov 22	327	18:50-23:32	342	075	Nov 22 18:50-19:40	182 ₁	332†	4	7	Loop	Irregularly-shaped cloud with some structure superposed on and south of streamer in 06:03 image only. Gone by 07:28. Deflections.
Nov 24	329	06:03-07:28	207	085	—	—	—	—	0	Front at 06:03 only	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Front	
Nov 25	330	01:40-05:13	150	030	—	—	—	0	Front at 02:05 only	Faint mound (or loop/cavity).	
Nov 26	331	05:56-07:38	090	070	Nov 26 05:56-08:13	481,*	076†	3	9	Loop	Sharp loop/cavity with amorphous core superposed on streamer. Streamer is blown out. Deflections.
Nov 26					Nov 26 06:13-06:29	492,*	112‡	2	5	Cavity	Narrow jet (or ray).
Nov 26	331	17:00~20:08	~285	~010	—	—	—	—	0	No obvious front	Structured (prominence?) loop/cavity centered under pylon shadow. Faint, wide, outer loop/cavity may be present. (See west images just prior to event start time.)
Nov 27/28	332/333	22:41-00:23	189?	078?	—	—	—	—	0	Front at 22:49 only	Faint, fuzzy cloud (or blob) in streamer.
Nov 28	333	~16:17~20:49	~285	~030	—	—	—	—	0	No clear front	Data is very streaked.
Nov 29	334	00:05-01:31	060?	—	—	—	—	1		Faint cloud superposed on existing structures.	
Nov 30	335	00:24-07:12	~068	~055	—	—	—	—	0	No clear front	Fuzzy, irregular loop(?)/cavity with complex core in fuzzy streamer. Streamer is blown out. Deflections. Core may be concave-outward, 'V'-shaped.
Nov 30/	335/336	~16:01~03:38	~305	~040	—	—	—	—	0	No obvious front	Very faint cloud superposed on streamer.
Dec 01					Nov 30 16:18-16:42	470, [*]	125	3	7	Loop	Loop/cavity with possible core superposed on rays.
Nov 30	335	16:18-17:35	118	055	325, ₂						DATA GAP: Dec 01 13:01 to 18:26.
Dec 01/02	336/337	~18:26~23:23	118	095	—	—	—	—	0	Too fuzzy	Streamer at 135° swells during data gap between 12:36 and 18:26. Faint cloud visible at ~100° between 22:23 and 23:49. Cloud moves non-radially (equatorward). Second faint cloud is visible at ~100° from 01:31 until ~04:30. Cloud fades. Continual disruption of material in streamers at 110° and 135° until end of Dec 02.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Dec 02	337	02:31~21:16	043	055	Dec 02 02:56~06:56	046 ₁ *	045	6	4	Tongue	Streamer expands and disrupts 'light-bulb' shaped tongue of material ejected through streamer.
Dec 05	340	12:02~21:26	260	120	Dec 05 13:11~14:38	229 ₁ *	260	3	7	Mound	Wide, faint mound (or loop/cavity) superposed on existing structures from 12:02 until 16:20. Loop(?)/cavity is visible from ~16:45 until end of event. Best seen in south images. Concave-outward, 'U'-shaped material visible from 18:18 until 19:52 between ~205° and 240°. Deflections. Data is streaked.
Dec 05/06	340/341	~21:34~10:57	~118	~085	Dec 06 05:15~07:05	075 ₁ *	129†	4	7	Material	Cloud between streamers followed by multiple, complex (loop-shaped) ejections of material. Region is partially blown out. Deflections. Some streaking in data.
Dec 06	341	~06:57~11:38	~260	~060	—	—	—	—	0	Too faint	Faint loop/cavity. Data is partially streaked.
Dec 07/08	342/343	21:37~02:10	305	040	Dec 07 21:37~23:02	175 ₁ *	304†	4	6	Cavity	Loop/cavity with possible core in streamer. Streamer is disrupted. Data is streaked.
Dec 08/10	343/345	~05:43~23:39	127	045	—	—	—	—	0	No clear front	Streamer slowly widens and expands outward. Material is ejected around streamer. Streamer is blown out by the end of Dec 10.
Dec 08	343	17:40~20:47	080	080	—	—	—	—	1	Broad, faint cloud with brighter, structured embedded material from 075° to 095°. Data is streaked.	Broad, faint cloud with brighter, structured embedded material from 075° to 095°. Data is streaked.
Dec 08	343	19:13~23:11	250?	060?	—	—	—	—	0	Broad, faint mound (or cloud) superposed on existing structures. Deflections at south edge. Data is very streaked.	Broad, faint mound (or cloud) superposed on existing structures. Deflections at south edge. Data is very streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Dec 08/09	343/344	20:55-03:19	~315	~060	Dec 08 20:55-21:28	070 ₁ * 071 ₂	315	3	5	First cavity	Faint, multiple loops/cavities with faint, loop-shaped core superposed on existing structures. Region is disrupted. Data is streaked.
Dec 09	344	06:43-11:00	045	070	—	—	—	0		Loop	Two part event: 1. Faint cloud superposed on streamer. 2. Broad loop/cavity superposed on streamers.
		06:43-09:34	068	068	Dec 09 09:42-10:07	1219 ₁ * 050	2	7		Cavity	Region is disrupted. Data is streaked.
Dec 09/10	344/345	23:22-01:04	312	045	—	—	—	0		No clear front	Cloud superposed on rays and streamers. Data is streaked.
Dec 10	345	13:51-19:42	073	055	—	—	—	—	0	Missed front	Motion of material at ~050°. Blowout occurs between 14:16 and 15:09 images. We may have missed the front. Large deflections. Irregularly-shaped material is visible from 15:09 until 16:34. Faint material is ejected until 19:42. Data is streaked.
Dec 10/11	345/346	14:16-08:54	117	045	—	—	—	1		Cavity	Loop/cavity superposed on streamer. Moves out very slowly after 16:34. Event on Dec 11 at 08:54 immediately follows in same location. Data is streaked.
Dec 10/11	345/346	23:31-02:05	305	080	Dec 10/11 23:31-00:23	529 ₁ * 463 ₁ *	305	2	7	Loop	Fuzzy loop/cavity with faint core superposed on streamer. Core becomes concave-outward, 'V'-shaped. Streamer is disrupted. Data is streaked.
Dec 11	346	03:38-05:38	~077	~035	Dec 11 03:39-04:12	808 ₁ *	075	2	5	Mound	Mound (or fuzzy cloud) superposed on faint rays. Southern side of event contains brighter material. Data is streaked.

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Date	DOY	Time [UT] [deg]	Cent PA Width [deg]	Kinematics					Comments	
				Trajectory Time [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Dec 11	346	08:54-21:32	130	040	Dec 11 09:54-11:20	0361*	127†	3	Outer cavity	Faint loop/cavity rises slowly in faint fan.
					Dec 11 11:45-19:17	0211	128†	14	Second cavity	Second loop/cavity with small hook-shaped core appears. Core is at south edge of outer loop/cavity. Deflections. Fan is blown out.
					Dec 11 11:45-19:50	0251	131†	19	Core	Data is streaked.
Dec 12	347	06:39-09:30	030	080	—	—	—	0	Front at 06:39 only	Loop/cavity(?) with partially structured core. Deflections. Some streaking in data.
Dec 12/13	347/348	23:26-06:14	310	060	Dec 12/13 23:34-01:16	2581*	308†	4	Loop	Fuzzy loop/cavity superposed on streamers. Southern streamer is disrupted. Deflections.
					Dec 12/13 23:34-00:51	1321*	312†	3	Cavity	Some streaking in data.
Dec 13	348	02:25-05:33	067	035	Dec 13 02:25-03:06	2811*	077	3	Loop	Fuzzy loop/cavity superposed on streamer. Loop top is flattened in 03:06 image.
						2822				Deflections. Streamer is disrupted. Some streaking in data.
Dec 13	348	12:37-21:10	072	035	—	—	—	0	No clear front	Mound (or cloud) superposed on fan. Data is streaked.
Dec 16	351	02:27-04:17	325	110	—	—	—	0	Missed front	DATA GAP: Dec 13 22:44 to Dec 15 15:22.
Dec 16	351	08:50-10:32	075	170	Dec 16 08:50-09:06	14751*	100	2	Loop	Broad, faint cloud superposed on rays and streamer. We missed the top of the cloud between 01:26 and 02:27 images. Deflections.
										Very broad loop/cavity superposed on existing structures. Southern part of loop top is smooth. Northern part of loop top has irregular, complex shape. Interior tongue of (prominence?) material follows and moves non-radially. Top of tongue is located at 115° and the base is located at 095°. Ray at northern edge moved prior to event at 07:24. Deflections.

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Date	DOY	Time [UT] [deg]	Cent PA Width [deg]	Kinematics						Comments	
				Trajectory Times [UT] [km/s]	Speed PA	#Data Pts	Qual	Feature			
Dec 17	352	04:45~14:31 ~062	~055	—	—	—	0	No obvious front	Faint, fuzzy cloud (or fan) of material superposed on streamer. Material is ejected over ten hours.		
Dec 17/18	352/353	~16:04~03:01	007	055	Dec 17/18 20:46-01:27 0341* 0252	005	4	7	Mound	Faint, slow-moving mound. Fades into background brightness levels.	
Dec 17	352	19:04-23:45	235	070	—	—	—	0	Front at 19:04 only	Broad, faint, partially structured mound with possible thin cavity is superposed on streamer. Deflections.	
Dec 18	353	17:37-23:52	240	060	Dec 18 17:37-18:29 4101*	250	2	4	Loop (prominence?)	Mound with embedded structured (prominence?) loop/cavity just beneath mound top. Structured blob of (prominence?) material is visible at 267° at 4.4R ₀ at 18:29. Mound and loop/cavity are gone by 19:55. Additional material (blobs?) is ejected along ray at 252° from 22:10 until 23:52. Event is superposed on streamers.	
Dec 19	354	04:33~18:27	237	055	Dec 19 04:33-07:41 0282	226	3	7	Cavity	Loop/cavity with partially structured core superposed on streamer. Concave-outward material moves outward from ~12:05 until end of event. Deflections. Region is disrupted.	
Dec 20	355	03:17-08:31	075	026	—	—	—	0	No clear front	Irregularly-shaped cavity rises in streamer. Streamer elongates and disrupts. Deflections.	
Dec 20	355	03:25-11:30	~237	~035	—	—	—	0	No obvious front	Irregularly-shaped material superposed on streamers. Region is disrupted. Lateral motions and brightening in northwest rays.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Dec 20/21	355/356	12:31~04:16 12:31-14:13	097	085	—	—	—	1	Loop	Could be two events: 1. Bright (multiple?) loop/cavity with structured (loop-shaped?) core. Northern streamer is disrupted. Big deflections. 2. Irregularly-shaped material and blob in disrupted streamer from part one.
		21:53-04:16	059	022	—	—	—	0	No clear front	Loop/cavity and amorphous core in streamer. Streamer is disrupted. Deflections.
Dec 21	356	01:00>04:24	235	050	Dec 21 01:08-04:24	131,*	235	4	7	Cavity
Dec 21/22	356/357	19:45-00:42	305	080	Dec 21 19:45-20:01	211,*	315	2	5	Mound
Dec 22/23	357/358	~00:42-02:06	028?	095?	—	—	—	0	Too fuzzy	Wide, faint mound (or cloud) superposed on rays. Rays are disrupted. Deflections.
Dec 22	357	02:24~08:47	232	035	—	—	—	0	No obvious front	Broad, very faint material superposed on existing structures. Material is ejected throughout Dec 22.
Dec 22	357	16:27-18:17	243	063	Dec 22 16:27-16:52	372,*	230	3	7	Loop
		Dec 22 16:27-16:52	501,*	230	3	7	Flat edge	Fuzzy loop/cavity with core superposed on streamer. Bright, embedded flat edge trail loop front from 16:27 until 16:52. Could be part of loop front or may be a core immediately behind the cavity. Streamer is disrupted.		
Dec 22/23	357/358	22:50-02:14	245	070	Dec 22 22:50-23:59	194,*	235	2	6	Cavity
Dec 22/23	357/358	23:59-01:25	315	050	Dec 22/23 23:59-00:08	350,*	307	2	6	Loop
										Complex (multiple?) loop/cavity with dimpled front and structured core superposed on streamer. Streamer is disrupted. Deflections. Concurrent with last southwest event.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	
Dec 23	358	01:25-05:14	308	033	Dec 23 02:58-03:48	221,*	313	3	5	Streamer
Dec 23	358	03:48-06:47	~230	~030	—	—	—	—	0	No obvious front
Dec 23	358	04:32-21:51	~040	~080	—	—	—	—	0	Too fuzzy
Dec 23	358	09:21-10:47	~237	~035	—	—	—	—	0	Front in one image only
Dec 23	358	15:28-20:26	245	050	Dec 23 15:28-15:44	984,*	245	2	9	Loop
Dec 24	359	~04:14-11:46	~242	~035	—	—	—	—	0	No obvious front

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Date	DOY	Time [UT]	Cent PA [deg]	Width Times [UT] [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Dec 24	359	12:19-20:07	242	055	Dec 24 12:19-13:36	710 _{2*}	247	5	5	Cavity
		12:19-13:53			Dec 24 13:20-14:09	329 ₁	257	4	5	Loop
		13:20~17:00			514 _{2*}					2. Brighter loop/cavity with complex structured (prominence?) core follows immediately behind the loop in part one.
		18:34-20:07								Core contains concave-outward, 'U'-shaped material. Region is partially blown out. Big deflections.
		~240								3. Fuzzy blob. Blob is concave-outward, 'U'-shaped in 19:34 image.
		~04:55~22:32			~035	~070	—	—	—	No obvious front
										Very faint cloud superposed on and north of streamer.
Dec 25	360	~09:38~12:45	235	020	—	—	—	—	0	No obvious front
										Blob 'N' Ray at 240° followed by tongue-shaped material superposed on rays.
		10:45~15:24	062	045	—	—	—	—	0	No obvious front
										Fan of material superposed on and south of streamer. Fuzzy blob is superposed on south side of fan. Deflections.
Dec 26	361	12:10-14:32	250	060	—	—	—	—	0	Too faint
										Faint mound superposed on streamer.
Dec 27	362	03:01-04:27	277	055	—	—	—	—	0	Front at 03:01 only
										Irregular loop/cavity and core superposed on streamer. Deflections. Visible in 03:01 image only at 2.5R _⊕ .
Dec 27	362	07:18-09:16	307	055	Dec 27 07:18-07:26	961 _{1*}	307	2	9	Loop
					Dec 27 07:18-07:26	961 _{1*}	307	2	9	Cavity (prominence?) core containing twisted loop-shaped structure. Event is superposed on streamers.
										Streamers are disrupted. Large deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Dec 27	362	08:35~11:42	043	040	—	—	—	1	Fuzzy front in two images only	Cloud(?) of material in streamer. Streamer is disrupted.	
Dec 27	362	10:41-16:23	~150	~060	Dec 27 10:41-12:15	1611*	157	2	4	Mound	Faint mound (or loop/cavity) superposed on and south of streamers.
Dec 27	362	11:58-16:40	~020	~080	—	—	—	—	1	Cloud	Faint cloud over north pole. Legs are superposed on streamers.
Dec 28	363	01:37~08:25	318	065	Dec 28 02:10-05:28	2242*	301†	5	4	Cavity	Faint, multiple loops/cavities with core in streamer. Core is concave-outward, 'V'-shaped. Streamer is disrupted. Deflections.
Dec 28	363	01:45-03:27	040	080	Dec 28 01:46-02:02	7031*	040	2	6	Loop	Faint, thin loop/cavity superposed on streamer. Deflections. Faint material may be added to the southeast sector at this time.
Dec 28	363	12:33-14:47	290	030	Dec 28 12:49-13:22	4211*	287	3	7	Mound	Mound (or tongue) superposed on streamer. Becomes irregularly-shaped as it moves outward.
Dec 28	363	17:47-20:54	~182	~085	—	—	—	0	No clear front	Faint, irregular cloud partially spans pylon shadow.	
Dec 29	364	~00:10~02:52	290	030	Dec 29 00:10-01:02	3761*	292	2	6	Loop	Small, flat-topped loop/cavity superposed on rays. Rays are disrupted.
Dec 29	364	06:25~09:23	~182	~165	—	—	—	0	Front in one image only	Broad, diffuse loop/cavity spans pylon shadow. Eastern edge is superposed on streamer. Deflections.	
Dec 29	364	~10:57-18:45	~138	~065	—	—	—	—	0	Too fuzzy	Faint cloud superposed on streamer. Streamer is disrupted. Motion in streamer prior to event. Motion may be due to previous event in south sector.
Dec 29	364	11:58-13:40	065	060	Dec 29 11:58-12:22	5391*	080	2	5	Outer loop	Thick, faint loop/cavity with inner loop/cavity and core. Northern leg is superposed on streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature		
Dec 29	364	12:06-16:39	250	040	—	—	—	—	1	Faint tongue of material with possible cavity superposed on rays. Rays are disrupted. Big deflections.	
Dec 29/30	364/365	22:53-00:35	312	047	Dec 29 22:53-23:18	235 [*]	306	3	7	Loop	
					Dec 29 22:53-23:18	231 ₁ [*]	306	3	7	Cavity	
Dec 30	365	06:42-06:58	080	040	—	—	—	0	Front at 06:42 only	Very faint loop/cavity (or mound).	
Dec 30	365	13:13-21:01	315	050	Dec 30 14:30-16:20	168 ₁ [*]	311	6	7	Cavity	
					199 ₂					Multiple loops/cavities with structured, loop-shaped (prominence?) core and fuzzy material all superposed on streamer. Streamer is blown out. Deflections.	
Dec 30	365	16:12-18:02	214 ₁	316 ^t	5	7	Core			Fuzzy, diffuse loop/cavity with brighter loop-like (prominence?) core superposed on streamers. Deflections.	
Dec 30	365	18:10~19:36	157	085	Dec 30 18:10-18:19	844 ₁ [*]	142	2	7	(prominence?)	
Dec 30/31	365/366	19:19~03:16	247?	045?	Dec 30 19:44-19:52	704 ₁ [*]	250 ^t	2	7	Structure in inner loop (prominence)	Faint, thin loop/cavity (or mound) with bright, embedded, highly structured (prominence) loop. Fuzzy jet is ejected from ~22:59 until ~03:16. Data is streaked.
Dec 31	366	~05:15-18:52?	282	045	—	—	—	—	0	Too faint	Very faint, diffuse cloud. Data is streaked.
Dec 31	366	~09:47~12:38	057	018	—	—	—	—	0	No clear front	Faint tongue of material superposed on fan. Deflections. Data is streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	Kinematica		Comments
										Feature		
Jan 01	001	04:40-06:13	268	014	—	—	—	0	0	No obvious front	Narrow tongue.	
Jan 01	001	07:55-09:12	~150	—	—	—	—	0	0	Too fuzzy	Fuzzy cloud near pylon shadow.	
Jan 02	002	02:22-~05:30	145	—	—	—	—	0	0	Too fuzzy	Cloud superposed on and south of streamer.	
Jan 02	002	19:21-~22:53	297	055	Jan 02 19:21-20:30	621 ₁	288 ₁	3	9	Loop	Bright loop/cavity and loop-shaped(?) core superposed on streamer. Streamer is disrupted.	
Jan 03	003	09:41-~18:46	~058	—	—	—	—	—	1		'V'-shaped from 20:30 to 22:04.	
Jan 04	004	~02:18-~13:13	114	057	—	—	—	—	0	No obvious front	Mound with core superposed on streamer (or fan). Could be more than one event. Deflections.	
Jan 04	004	~07:24-~10:39	028	025	Jan 04 07:24-07:40	631 ₁ *	034	2	7	Northern loop	Concave-outward shaped material at 18:29. Data is streaked.	
Jan 04	004	033?	025?	—	—	—	—	0	Front at 07:24 only	Cloud superposed on streamer.		
Jan 06	006	02:40-08:54	060	070	—	—	—	0		Two overlapping loops/cavities:		
Jan 06	006	02:40-04:55	060	070	—	—	—	0		1. Northern loop/cavity. Front trails southern loop.		
Jan 06	006	07:12-08:54	060	080	—	—	—	0		2. Southern loop/cavity.		
Jan 06	006	05:39-09:02	290	070	Jan 06 05:39-06:28	190 ₁ *	290	3	7	Outer cavity	DATA GAP: Jan 04 13:54 to Jan 05 15:36.	
Jan 06	006	—	—	—	Jan 06 05:55-06:28	422 ₂	—	—		Two part event:		
Jan 06	006	~11:01-21:56	~270	—	(prominence?)	305 ₁ *	306	3	9	Inner loop (prominence?)	1. Broad, fuzzy cloud superposed on streamer. Deflections.	
Jan 06	006	—	—	—	(prominence?)	528 ₂	—	—	0	No obvious front	2. Structured (prominence?) cloud superposed on streamer.	
Jan 06	006	—	—	—	(prominence?)	—	—	—	—	Fan is disrupted. Deflections.	Loop/cavity and structured, inner (prominence?) loop/cavity. Inner loop is at northern edge of event. Event is superposed on fan. Fan is blown out. Deflections.	
Jan 06	006	—	—	—	(prominence?)	—	—	—	—	Slow expansion of material in fan.	Fan is disrupted. Deflections.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Sp PA	#Data Pts	Qual	Feature	
Jan 06	006	18:08-18:41	120	060	Jan 06 18:08-18:41	799 ₁ * 678 ₂	137†	3	6	Loop	Sharp loop/cavity at 18:08 superposed on south edge of streamer. Front gets fuzzy. Deflections.
Jan 07	007	00:22-09:00	~140	~020	—	—	—	—	0	No clear front	Blob 'N Ray. Moves synchronously with other east events from 05:03 to 06:37.
Jan 07	007	01:58-03:54	303	067	Jan 07 01:58-02:20	545 ₁ * 770 ₂	310	3	7	Loop	Fuzzy loop/cavity and twisted, structured (prominence?) core superposed on streamer (or ray). Deflections.
Jan 07	007	03:29-23:46	~104	~041	Jan 07 12:51-13:24	219 ₁ * 070 ₂	110	3	4	Mound (in core)	Two part event: 1. Fuzzy mounds (or loops/cavities). Stalls or fades by 05:03. Bright, narrow material in southern edge at 05:19. Could be part of 00:22 event. Accelerates at 12:51. Possible fuzzy loop/cavity and core at this time. Event is superposed on streamers (or rays). 2. Fuzzy, structured loop/cavity (or cloud).
Jan 07	007	05:03-09:00	~055	~030	Jan 07 05:19-05:52	633 ₁ * 493 ₂	058	3	5	Loop	Fuzzy loop/cavity with concave-outward 'U'-shaped blob superposed on rays. Region is disrupted.
Jan 07	007	06:37-14:24	070?	056?	Jan 07 08:35-13:16	019 ₁ * 043 ₂	065	4	3	Loop	Faint loop/cavity superposed on fan (or rays) between two ongoing events. Front fades.
Jan 07	007	08:35-10:26	317	045	—	—	—	—	0	Front at 08:35 only	Loop(?)/cavity and structured, loop-shaped (prominence?) core superposed on fan.
Jan 07	007	18:13?-23:54	~250	~020	—	—	—	—	0	Too faint	Very faint cloud superposed on fan. Could have started earlier.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed [km/s]	#Data Pts	Qual	Feature		
Jan 07/08	007/008	22:29-02:09	058	020	Jan 07 23:02-23:46	3681*	063	2	4	Tongue	Tongue superposed on fan.
Jan 08	008	03:10~08:16	060	030	—	—	—	—	1		Two part event: 1. Concave-outward, 'cornucopia', 'V'-shaped material with bright, structured (prominence?) material at 03:43. Event is superposed on fan. Could be part of previous event. Non-radial motion.
		05:01-08:16	090	037	—	—	—	—	0	No obvious front	2. Irregularly-shaped material.
Jan 08	008	12:48-15:55	123	051	Jan 08 12:48-14:05	3391*	118	4	9	Loop	Flattened loop/cavity and fuzzy core superposed on streamer and rays.
Jan 08	008	15:55-20:03	062	028	Jan 08 16:21-17:12	4351*	068	3	3	Cloud	Region is disrupted. Deflections.
Jan 08	008	17:04-20:11	240	031	—	—	—	0	No clear front	Cloud containing concave-outward, 'U'-shaped front. Cloud is superposed on fan. Deflections.	
Jan 08	008	20:03-22:26	074	021	—	—	—	0	No clear front	Fuzzy cloud superposed on fan.	
Jan 09	009	04:41<11:39	053	047	—	—	—	0	No clear front	Narrow tongue superposed on rays followed by wider cloud superposed on rays at 09:14.	
Jan 09	009	13:21-15:12	343	100	Jan 09 13:21-13:38	7371*	325	2	9	Loop	Deflections.
Jan 09/10	009/010	18:36-10:12	227	055	Jan 09 18:36-21:43	0501*	215	3	5	Loop	Big loop/cavity and core(?) superposed on streamers and fan. Deflections.
					0742						Could be two events:
											1. Thick loop/cavity superposed on streamer and fan. Second loop/cavity follows at 23:17. Deflections. Concave-outward material could be present from 07:13 to 10:12.
											2. Faint cloud superposed on and north of part one.
											Flattened loop/cavity superposed on fan (or streamers). Could be related to 18:36 southwest event.
											Structured mound (or tongue) superposed on fan.

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				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Jan 10	010	20:50-22:32	125	080	Jan 10 20:50-21:15 611 ₁ * 467 ₂	140	3	7	Loop	Loop/cavity with possible core superposed on fan. Deflections.
Jan 10/11	010/011	22:16~00:22	~061	~028	—	—	—	—	No clear front	Narrow tongue superposed on rays. Deflections.
Jan 11	011	06:20-12:18	015?	—	—	—	0	0	No clear front	Possible halo. Motion in all sectors.
Jan 11	011	09:11-12:18	020	—	—	—	0	Front at 09:11 only	Mound (or loop/cavity) north of streamer.	
Jan 11	011	06:37~20:22	220	040	Jan 11 06:37-09:27 082 ₁ * -014 ₂	225	5	3	Cloud	Faint cloud (or mound) superposed on streamer followed by brighter material from 08:11 until ~20:22. Cavity could be present at 08:11. Streamer is disrupted.
Jan 11	011	13:35-15:09	060	064	Jan 11 13:52-14:00 912 ₁ *	068	2	8	Loop	Two part event, same times for both: 1. Loop/cavity and core superposed on background corona. Deflections. 2. Tongue superposed on fan.
Jan 12	012	20:47-22:37	058	087	Jan 12 20:47-21:36 538 ₁ * 610 ₂	067	4	7	Loop	Wide loop/cavity and inner loop-shaped core superposed on streamers and rays. Region is disrupted. Deflections.
Jan 13	013	05:16-07:42	206?	032?	—	—	—	0	Front at 05:25 only	Cloud (or loop/cavity) near pylon shadow.
Jan 13	013	10:49-12:47	124	081	Jan 13 10:49-11:38 314 ₁ * 290 ₂	142†	4	5	Loop	Faint loop/cavity (or mound) with blob.
Jan 14	014	06:22~10:45	195?	062?	—	—	—	0	Too faint	Paint, irregular cloud spans pylon shadow. Deflections. Could extend as far east as 142°.
Jan 15	015	11:18-12:52	282	015	—	—	—	0	No clear front	Narrow tongue north of streamer.
Jan 15	015	16:40-17:49	310	020	—	—	—	0	No obvious front	Fuzzy, narrow cloud (or tongue) superposed on ray.
Jan 15	015	19:06-21:13	105	051	Jan 15 19:06-19:39 160 ₁ * 316 ₂	114	3	3	Loop	Faint loop/cavity superposed on rays (or streamers). Deflections.
Jan 15	015	20:31-22:05	283	007	—	—	—	0	No obvious front	Narrow jet north of streamer.

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Date	DOY	Time [UT]	Cent PA Width	Kinematics					Comments
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jan 15	015	20:48-23:55	015	050	—	—	—	0	Front at 20:48 only
									Mound (or loop/cavity) with highly structured arrow-shaped (prominence) core at 012° in 22:22 image. Event appears between streamers. Deflections.
Jan 15	015	22:13-23:47	112	087	Jan 15 22:13-22:46	316 ₁ ★	095	2	6 Loop
					Jan 15 22:13-22:46	347 ₁ ★	107†	2	6 Core (prominence?)
Jan 15/16	015/016	22:55-00:03	295	070	—	—	—	1	Cloud
									Faint cloud superposed on streamers and rays. Deflections.
Jan 16	016	09:09-12:49	055	060	Jan 16 09:09-09:42	538 ₁ ★	060	3	7 Cavity
					236 ₂	352 ₁ ★	060	3	9 Inner loop (prominence)
					324 ₂	465 ₁ ★	240	3	5 Loop
					542 ₂	—	—	—	Faint, irregular loop/cavity (and core?) superposed on streamers. Deflections.
Jan 16	016	09:25-11:07	245	040	Jan 16 09:25-09:50	—	—	—	No clear front
						—	—	0	Faint, irregular cloud partially obscured by pylon shadow. Could be wider.
Jan 16	016	09:33-11:07	182?	065?	—	—	—	—	Faint cloud superposed on streamers and rays.
Jan 17	017	03:55-07:27	~070	~050	—	—	—	1	South edge is obscured by pylon shadow.
Jan 17	017	09:17-14:42	~221	~042	—	—	—	0	Too faint Deflections.
Jan 17/18	017/018	21:21-04:00	329	086	—	—	—	0	Could be two events:
	017/018	21:21-04:00	329	086	—	—	—	0	1. Faint material superposed on streamer. Streamer expands.
	018	00:28-04:00	323	065	Jan 18 00:28-00:53	560 ₁ ★	327	3	8 Loop
					668 ₂	471 ₁ ★	327	3	8 Cavity
					539 ₂	—	—	—	2. Loop/cavity and core superposed on and north of streamer. Streamer is disrupted. Deflections.

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					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Q'ial	Feature		
Jan 18	018	07:00-11:49	240	081	Jan 18 07:00-07:52	725 ₁ *	245	3	7	Loop	Broad loop/cavity and complex multi-structured core superposed on and between streamers. Region is partially blown out. Big deflections.
Jan 18/19	018/019	07:00~08:24	~315	—	Jan 18 08:25-09:50	117 ₁ *	324	3	3	Cloud	Could be up to three events: 1. Cloud superposed on streamer. Could be concave-outward, 'V'-shaped. 2. Loop/cavity and inner, structured (prominence) loops/cavities superposed on and north of streamer. Inner loops are visible by 19:12. Deflections.
018		18:47~20:20	318	063	—	—	—	—	1	Cavity (prominence)	3. Streamer expands and blows out.
			335	030	—	—	—	—	0	No obvious front	Wide, irregular loop/cavity with core. South side is faint. Deflections.
018/019		21:10-06:24	315	030	—	—	—	—	0	Front at 11:07 only	Front clearly visible at 01:43 only
Jan 18	018	11:07-12:41	095	090	—	—	—	—	0	Front at 11:07 only	Front clearly visible at 01:43 only
Jan 19	019	01:43-04:17	~107	~086	—	—	—	—	1	Front clearly visible at 01:43 only	Material covers east sector. Region is partially blown out. Deflections.
Jan 20	020	05:07-07:14	050	050	—	—	—	—	0	Front at 05:07 only	Multiple, concentric loops/cavities and structured core superposed on and between streamers. Region is partially blown out.
					—	—	—	—	1	Cavity	Deflections.
Jan 20	020	16:19-23:50	290	030	Jan 20 16:19-17:36	226 ₁ *	293	4	5	Mound	Fuzzy, structured mound (or tongue) superposed on and between rays. Fades.
Jan 21	021	00:40-02:13?	307	045	—	—	—	—	0	Front at 00:40 only	Thin loop/cavity and structured (prominence?) core superposed on streamer and ray. Core fragments. Faint material ejected mid Jan 21. Region is disrupted. Deflections.
Jan 21/22	021/022	~08:12-02:30	060	030	—	—	—	—	0	No obvious front	Slow expansion and disruption of streamer.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature		
Jan 21/22	021/022	21:41~04:12	295	040	Jan 21 21:58-23:31	283 ₁	300	4	5	Flat loop	Flattened loop/cavity (or mound) superposed on streamer. Second loop/cavity (or mound) at 01:13. Deflections.	
Jan 22	022	11:52-15:00	~038	~043	Jan 22 13:26-13:42	562 _{1*}	045	2	5	Mound	Faint mound (or cloud) superposed on and north of streamer. Deflections. Could be wider.	
Jan 25	025	03:47-05:54	307	045	Jan 25 03:47-03:55	561 _{1*}	310	2	9	Loop	Thick loop/cavity superposed on and south of streamer and rays. Deflections.	
Jan 25	025	06:03-09:10	122?	025?	—	—	—	0	No obvious front	Cloud (or blob) in streamer.		
Jan 25/26	025/026	16:41~07:00	127	055	Jan 25 16:57-20:05	055 _{1*}	130	8	5	Cavity	Cavity and core rise slowly in streamer. Loop becomes visible around cavity.	
Jan 26	026	03:03-06:44	314	032	Jan 26 03:28-03:53	375 _{1*}	313	2	3	Cloud	Cloud superposed on and south of streamer.	
Jan 26	026	14:06~15:40	268	—	—	—	—	0	No obvious front	Faint blob (or cloud) between streamers.		
Jan 26	026	14:23-15:32	150?	050?	Jan 26 14:31-14:48	351 _{1*}	142	2	5	Loop	Faint loop(?)/cavity superposed on streamer.	
Jan 26	026	19:20-20:54	~270	—	—	—	—	0	No obvious front	Faint, narrow jet. Data is streaked.		
Jan 27	027	16:37-18:11	260	040	Jan 27 16:37-17:10	738 _{1*}	260	2	3	Mound	Faint, structured mound in streaked data. Deflections.	
Jan 28	028	03:24-05:31	310	060	Jan 28 03:24-03:41	382 _{1*}	315	3	4	Loop (not leading edge)	Bright, irregular loop/cavity and complex loop-shaped core superposed on streamer. Remnants ejected late in event. Core is concave-outward, 'V'-shaped by 04:06. Streamer is partially blown out. Deflections.	
			305	030	Jan 28 03:24-03:49	436 _{1*}	315	4	7	Inner cavity (in core)	Faint cloud superposed on streamer.	
Jan 28	028	08:38-10:28	142	035	—	—	—	0	No obvious front	Front at 13:27 only		
Jan 28	028	13:27-15:00	~325	—	—	—	—	0	No obvious front	Faint loop/cavity superposed on fan (or streamer).		
Jan 28/29	028/029	22:15-01:30	22:15-01:22	315	050	Jan 28 22:15-22:48	649 _{1*}	315	3	9	Outer loop	Two part event: 1. Multiple, concentric loops/cavities with core superposed on streamer and fan.
						915 ₂					2. Faint mound (or cloud) north of fan.	
		22:23-01:30	~018	~065	—	—	—	0	Front at 22:23 only.			

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					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Jan 29	029	00:30-02:48	~130	—	—	—	—	0	Too fuzzy	Cloud superposed on streamers. Cloud is concave-outward, 'V'-shaped.	
Jan 29	029	04:21-17:06	040	048	Jan 29 06:28-08:02	142 ₁ *	030	2	5	Cavity	Two piece event: 1. Loop/cavity (and core?) superposed on rays. 2. Fuzzy loop/cavity and core north of fan.
		08:02-17:06	000	040	Jan 29 09:18-10:52	174 ₁ *	002	2	3	Fuzzy cavity	Deflections.
Jan 30	030	02:11~03:44	304	062	Jan 30 02:11-02:27	1055 ₁ *	310	2	9	Outer loop	Dimpled loop/cavity with beautiful, structured, knotty, inner (prominence) loop/cavity superposed on rays and streamer. Deflections. Region is disrupted.
		305	040	Jan 30 02:11-02:27	787 ₁ *	305	2	9	Inner loop (prominence)		
Jan 30	030	02:52~05:18	103	045	—	—	—	0	Too fuzzy	Structured mound superposed on streamer. Deflections.	
Jan 30	030	05:51~22:41	027	022	—	—	—	0	No clear front	Tongue superposed on narrow streamer. Streamer is disrupted. Deflections.	
Jan 30	030	12:05-16:10?	222	032	—	—	—	1		Fuzzy mound superposed on and south of streamer. Could be two concentric, proximate loops/cavities centered on ray. Deflections.	
Jan 31	031	04:38~09:35	065	130	Jan 31 04:38-06:12	338 ₁ *	045	3	7	Outer loop	
					Jan 31 04:47-05:04	264 ₂	020	3	7	Inner loop	
						356 ₁ *	481 ₂				
Jan 31	031	11:34~20:30	059	043	—	—	—	1		Structured cloud. Could be related to previous event. Deflections.	
Feb 01	032	04:01-06:08	032	014	—	—	—	1		Narrow, structured tongue superposed on ray. Ray is disrupted.	
Feb 01	032	16:39?~18:54	315	035	—	—	—	0	No obvious front	DATA GAP: Feb 01 07:58 to 16:31.	
										Faint loop/cavity superposed on streamer. Data is streaked.	
Feb 03	034	<15:17-16:06	~315	—	—	—	—	0	Missed front	DATA GAP: Feb 01 23:02 to Feb 03 15:17.	
										Bright, irregular material over west limb. Missed front in data gap.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pla	Qual	Feature	
Feb 03/04	034/035	15:33?~08:42?	051	049	—	—	—	1	Cloud		Irregularly-shaped cloud in streaked data.
Feb 04	035	10:15~23:00	042	095	Feb 04 10:15-10:40	842 ₁ *	052	2	5	Loop	Could be two events in streaked data: 1. Big, bright loop/cavity and complex, structured core superposed on streamers (or fan). Region is blown out. Big deflections. 2. Thin loop/cavity. Best seen in north images.
		10:15~16:29			Feb 04 11:49-16:29	027 ₁ *	062	4	3	Cavity	
		11:49~23:00			021 ₂						
Feb 05	036	11:20~14:27	~069	~022	—	—	—	0	No obvious front		Faint cloud superposed on rays. Could be wider. Data is streaked.
Feb 06	037	16:56~18:29	030	050	—	—	—	0	Front at 16:56 only		Structured mound (or loop/cavity) with structured core superposed on rays. Deflections.
Feb 07	038	01:00~13:28	01:00~03:59	235	026	—	—	—	0	No obvious front	Could be two events: 1. Tongue superposed on streamers. Motion prior to event.
		11:54~13:28	~230	—	—	—	—	0	No obvious front	2. Fuzzy loop/cavity(?) superposed on streamers. Deflections. Region is disrupted.	
Feb 08	039	09:02~12:17	235	040	Feb 08 09:02-11:17	128 ₁ *	234†	4	3	Cavity	Fuzzy, structured loop(?)/cavity superposed on fan (or streamers). Region is disrupted. Deflections.
		11:17~12:17			016 ₂						
Feb 08/09	039/040	21:30~02:27	015	100	—	—	—	0	Missed front		Big loop/cavity and structured, loop-shaped core centered on streamer. Big deflections. Region is disrupted.
Feb 08/09	039/040	23:38~01:10	223	032	—	—	—	0	Front in one image only		Loop/cavity superposed between streamers. Deflections.
Feb 09	040	04:34~07:41	235	040	—	—	—	0	No obvious front		Faint, structured cloud superposed on streamers.
Feb 09	040	14:55~19:35	~020	~160	Feb 09 16:28-18:01	124 ₁ *	000	2	3	Loop	Wide, fuzzy, faint loop/cavity. Best seen in 18:01 image. Halo?

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT] [deg]	Cent PA Width	Kinematics						Comments
				Trajectory Time [UT] [deg]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Feb 10	041	06:54-10:01 228	019	—	—	—	0	0	Missed front	Irregularly-shaped, highly structured, twisted ropes of (prominence?) material superposed on and south of streamer. Could have missed the front between 05:29 and 06:54 images.
Feb 10	041	12:35-15:42	103	054	Feb 10 12:35-13:08 742 ₁	108 ₁	3	9	Loop	Thin loop/cavity with core and blob between streamers. Blob is in northern leg of event. Loop is 'light-bulb'-shaped. Deflections.
Feb 11	042	02:45-23:33 02:45-09:15	~050	—	—	—	—	0	No obvious front	Two part event in streaked data: 1. Fuzzy cloud with blob superposed on streamers. 2. Bright, narrow jet.
Feb 11	042	21:51-23:33	~057	—	—	—	—	0	No obvious front	Fuzzy cloud south of streamer.
Feb 11	042	13:55-17:02	~210	~020	Feb 11 13:55-15:29 074 ₁ *	208	2	3	Cloud	Faint, fuzzy loop/cavity and complex, structured (loop-shaped?) core superposed on and between streamers. Deflections. Data is streaked.
Feb 12	043	14:18~23:47	106	067	Feb 12 15:08-16:00 089 ₁ *	110	2	3	Cavity	Wide loop/cavity and diffuse core. Streaked data. Deflections. Could extend as far north as 055°.
Feb 12/13	043/044	20:57-05:10	150?	119?	Feb 12 20:57-21:22 784 ₁ *	140	3	6	Loop	Loop/cavity and core superposed on and north of streamer. Streamer is partially blown out. Deflections. Data is streaked.
Feb 13	044	16:54-20:01	056	038	Feb 13 16:54-18:28 291 ₁ *	055	4	7	Cavity	Slow brightening and expansion of material in streamer. Irregular cloud appears at 08:54. Broad loop/cavity with complex core is visible at 10:27 with smaller, embedded loop/cavity and core at southern edge. Streamer is blown out. Big deflections. Data is streaked.
Feb 14	045	03:57~16:24	322	090	Feb 14 10:27-11:44 144 ₁ *	325	2	3	Northern cavity	Small, faint cavity superposed on rays in streaked data.
Feb 14	045	05:47~12:01	~103	~015	Feb 14 11:52-13:01 186 ₁ *	295	3	4	Southern cavity	
					110 ₂					

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					Trajectory Time [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature		
Feb 14/15	045/046	11:36~10:06	055	033	Feb 14 11:36-14:43	077 ₁ *	060	4	7	Cavity	Loop/cavity and brighter, structured inner (prominence) loop/cavity superposed on streamers. Region is partially blown out.	
					Feb 14 13:09-15:16	059 ₂	028 ₁ *	060	4	9	Inner loop (prominence)	Big deflections. Additional fuzzy cloud follows from 00:37 until ~10:06. Data is streaked.
Feb 15	046	18:37-20:10	~305	—	—	—	—	—	—	0	No clear front	Jet (or narrow tongue). Could be wider.
Feb 16	047	11:53~22:47	092	020	—	—	—	—	0	No obvious front	Two part event: 1. Faint, irregularly-shaped cloud superposed on rays in streaked data.	
		11:53~15:00			—	—	—	—	0	No clear front	2. Faint, narrow cloud. Possible concave-outward, 'U'-shaped material in 18:40 image.	
		17:06-22:47	~135	—	—	—	—	—	0	No clear front	Multiple(?), concentric loops/cavities and core superposed on streamer. 'Light-bulb' shape at 15:55. Streamer is blown out.	
Feb 17	048	14:22-19:02	105	050	Feb 17 14:22-15:55	236 ₁ *	110	2	7	Loop	Deflections.	
					Feb 17 14:22-15:55	236 ₁ *	110	2	7	Cavity	Streamers expand slowly and develop a mound-shaped front. Highly structured, bright, knotty (prominence) material follows from 02:49 to 07:38. Knoty material extends as far north at ~100 degrees at 3.0R _○ . Streamers are blown out. Big deflections.	
Feb 17/18	048/049	~21:08-08:11	~147	~039	—	—	—	—	0	Mound	Streamers expand slowly and develop a mound-shaped front. Highly structured, bright, knotty (prominence) material follows from 02:49 to 07:38. Knoty material extends as far north at ~100 degrees at 3.0R _○ . Streamers are blown out. Big deflections.	
					Feb 18 02:49-04:47	059 ₁ *	130	4	7	Inner material (prominence)	Bright loop/cavity superposed on and north of streamer. Southern leg is structured (prominence?) in 06:58 image. Deflections.	
Feb 18	049	04:47~06:38	260	039	Feb 18 04:47-05:04	562 ₁ *	248	2	6	Loop	Loop/cavity and core (or mound). Deflections.	
					Feb 19 02:03-02:44	315 ₁ *	260	4	7	Cavity	Faint material late in event.	
Feb 19	050	02:03~16:03	267	023	Feb 19 02:03-02:44	359 ₂	—	—	—	0	Front at 05:10 only	Faint loop/cavity with core and blob superposed on rays. Region is disrupted.
											Deflections.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					Trajectory Times [UT]	Speed PA	#Data Pts	Qual	Feature			
Feb 20	051	02:05~05:21	—	—	—	—	—	0	Front at 02:05 only	Faint cloud superposed on streamer.		
Feb 20/22	051/053	15:48~04:45	15:48~18:55	~045	~035	—	—	—	0	Front at 15:48 only.	Multiple part event:	
	051									1. Structured cloud superposed on rays (or streamers).	2. Narrow tongue of material in ray from Feb 20 23:35 until Feb 21 01:09. More motion and brightening until Feb 22 ~04:45.	
Feb 21	052	10:05~12:19	256	020	—	—	—	1	Blob	Narrow blob (or cloud) in streamer. Data is streaked.		
Feb 22	053	11:07~14:14	251	035	—	—	—	0	Front at 11:07 only	Fuzzy, complex cloud superposed on streamer.		
Feb 23	054	06:13~07:47	043	016	—	—	—	0	Missed front	Structured fan (or tongue) along ray.		
Feb 23	054	09:36~12:02	149	033	—	—	—	0	No obvious front	Deflections. Could have missed the front.		
Feb 24	055	09:41~13:29	234	081	Feb 24 11:31~12:04	223 ₁ *	255	4	7	Inner cavity (northern edge)	Structured fan superposed on streamer.	
					243 ₂					Fuzzy, complex core and inner cavity superposed on streamers. Streamers are blown out. Big deflections. Data is streaked.		
Feb 25	056	05:11~21:36	05:11~07:28	138	051	—	—	—	1	Loop	Could be two events:	
		16:56~21:36		135	010	—	—	—	0	No obvious front	1. Loop/cavity in streamer. Streamer is disrupted. Data is streaked.	
											2. Bright tongue in streamer. Streamer is blown out by end of day. Equatorial streamer brightens.	
Feb 26	057	all day	304	032	—	—	—	1	Cavity	Motion in rays. Cavity with core rises slowly from ~04:06 until end of day.		
Feb 28	057	16:50~19:57	200	060	—	—	—	1	Cloud	Data is streaked.	Faint cloud spans pyjon shadow. Data is streaked.	

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Date	DOY	Time [UT] [deg]	Cent PA [deg]	Width Times [UT] [deg]	Kinematics					Comments
					Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Feb 26/27	057/058	18:07-00:20 18:07-00:20	020	047 —	—	—	0	Front at 18:07 only	Two part event:	
					—	—	0	Blob at 18:40 only	1. Loop/cavity (or mound) with structured, knotty, complex (prominence) blobs superposed on fan (or streamers). Deflections.	
Feb 28	059	22:47-00:20 16:31~21:11	~021	~047 ~045	Feb 28 16:31-18:05 Feb 28 18:05-22:47	228 ₁ * 289 ₂	150 4	5	Loop	2. Mound (or cloud). Deflections.
									Fuzzy loop/cavity in streaked images superposed on and south of streamer. Moves non-radially (equatorward). Possible concave-outward, 'U'-shaped material from 18:38 to 21:11.	
Feb 28	059	18:46~21:03	293	065	Feb 28 18:46-19:55 235 ₂	513 ₁ *	295	3	Loop	Flattened loop/cavity superposed on fan at 18:46. Could be multiple, concentric loops/cavities with core by 19:30. Data is streaked.
									Could be three events.	
Mar 01	060	05:32?~22:39 05:32?~07:57	280	—	—	—	—	0	No obvious front	1. Faint (wide?) cloud superposed on streamers and rays. Deflections. Streaked data.
					—	—	—	1	Cloud	2. Structured cloud (or mound). Deflections.
		14:10-17:17	275	030	—	—	—	1	Region is disrupted.	3. Blob (or cloud) in fan.
					—	—	—	1	Blob	
		17:42-22:39	282	015	—	—	—	1		
Mar 02	061	04:27-05:00	290	040	Mar 02 04:27-05:00	562 ₁ *	300	2	Northern cloud	Two adjacent clouds (or blobs) superposed on rays and streamers. Northern cloud is faster.
									Two piece event:	
		09:32-16:37	280	014	—	—	—	1	1. Blob (or cloud) in fan.	
					—	—	—	1	2. Mound (or cloud) with cavity. Deflections.	
		09:32~10:48	290	035	Mar 02 12:38-13:30	512 ₁ *	290	2	Mound	
		12:38-16:37	290	035	Mar 02 12:38-13:55	495 ₁ *	290	3	Cavity	
						523 ₂				
Mar 02/04	061/063	22:59~23:46 061/062 22:59-02:05 062/063 early~23:46	105	040 074	—	—	—	0	No obvious front	Could be more than one event:
					—	—	—	1	Streamer	1. Irregular cloud superposed on streamers. 2. Slow expansion and disruption of streamer.

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Date	DOY	Time [UT]	Cent PA [deg] Width [deg]	Kinematics					Comments		
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual			
Mar 03	062	08:10-14:24	274 048	Mar 03 08:10-08:36 Mar 03 08:36-09:00	357 ₁ * 401 ₂	270	4	5	Mound	Bright, complex mound (or loop/cavity) with structured (prominence?) core superposed on streamers and rays. Deflections. Region is blown out.	
Mar 05	064	01:03-05:18?	327?	065?	Mar 05 01:27-03:01	140 ₁ * 153 ₂	325	5	6	Cavity	Very faint loop/cavity (or mound) superposed on streamers and ray. Deflections. Could be wider.
Mar 05	064	10:14?-12:21?	270	030	Mar 05 10:14-10:39	547 ₁ * 349 ₂	266	3	5	Mound	Faint mound (or cloud) superposed on streamer (or rays). Deflections.
Mar 05	064	21:33-23:06	089	020	—	—	—	—	0	Front at 21:33 only	Jet (or fan) Deflections.
Mar 06	065	14:15-15:49	~034	~137	—	—	—	—	0	Front at 14:15 only	Bright loop/cavity and core superposed on streamers (or fan). Region is blown out. Big deflections. Faint material (ejected?) in this region from 09:51 to 12:41.
Mar 07	066	06:07-23:29	108	035	—	—	—	—	0	Front at 06:07 only	Could be three events: 1. Loop/cavity and concave-outward, 'V'-shaped cor. superposed on north edge of streamer. Region is disrupted. Big deflections.
		06:07-09:22	—	—	—	—	—	0		2. Small, flattened cloud (or blob).	
		13:28-14:01	087	—	—	—	—	0		3. Faint, narrow tongue (or wisp).	
Mar 07	066	22:40-23:29	090	026	—	—	—	—	0	No obvious front	Front at 14:09 only
		14:09-<21:15	~325	—	—	—	—	0		Mound seen in partial image at 14:09. Data gap follows.	
Mar 08/09	067/068	01:55-01:15	239?	070?	—	—	—	—	0	No clear front	DATA GAP: Mar 07 14:09 to 21:07.
		01:55-03:28	067	—	—	—	—	0		Could be more than one event: 1. Very faint cloud superposed on and north of streamer.	
		067/068	12:48-01:15	213	094	—	—	—	0	No clear front	2. Faint structured cloud centered on streamer. Deflections.

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Date	DOY	Time [UT] [deg]	Cent PA Width [deg]	Kinematics					Comments	
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Mar 08	067	03:34-05:27	050	024	—	—	—	0	Front at 03:34 only	
Mar 08/10 067/069	08:34~03:34	067/069	08:34~03:34	052	025	Mar 08/09 13:05-03:05	007 ₁ *	052	7	3 Outer cavity
						Mar 09 01:32-15:32	011 ₁ *	045†	9	4 Inner loop
						Mar 09 15:32-18:39	040 ₁ *	043	3	4 Inner cavity
						059 ₂	—	—	2. Blob 'N Ray.	
						216 ₁ *	079	5	4 Blob	
						253 ₂	—	—	No obvious front	
						—	—	0	3. Very faint cloud (or blob).	
						—	—	—	4. Flattened, filled tongue at south edge	
						—	—	—	of streamer.	
067	15:47-17:20	080	—	—	—	1370 ₁ *	080	3	Tongue	
067	19:10-19:27	092	022	—	—	1297 ₂	—	—	Tongue of material along streamer. Front elongates. Streamer is disrupted.	
068	02:57-04:14	077	014	—	—	—	—	—	Two part event: 1. Loop/cavity and core superposed on streamer. Deflections.	
Mar 09	068	06:21-11:17	142	025	—	—	—	1	Loop	
Mar 09	068	14:07-18:11	112	046	Mar 09 14:07-15:07	444 ₁ *	125†	4	0 Front at 15:40 only	
		14:07~16:57	—	—	307 ₂	—	—	0	2. Narrow, structured tongue.	
					—	—	—	0	Front at 23:27 only	
Mar 09/10 068/069	15:40-18:14	073	016	—	—	—	—	—	Faint mound superposed on fan (or streamer). Faint structured mound superposed on and south of streamer.	
Mar 10	069	02:42-12:03	160	050	—	—	—	1	—	
Mar 10/11 069/070	18:24-01:46	068	064	Mar 10 18:24-19:33	416 ₁ *	075	3	5	Mound	
					357 ₂	—	—	—	Mound superposed on streamer. Irregularly-shaped by 19:08. Brighter, structured knots of (prominence?) material from 19:57 to 23:04. Deflections.	
Mar 10	069	19:24-20:58	~006	~058	—	—	—	0	Nice, bright loop/cavity at north edge of streamer. Could be wider. Deflections.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature		
Mar 11	070	03:44~06:35	107	039	—	—	—	0	Front at 04:28 only	Faint, fuzzy loop/cavity superposed on fan.	
Mar 11	070	16:55-19:18	144	038	Mar 11 16:55-17:44	395 ^{1*}	150	4	Material (prominence?)	Corona brightens from 063° to 134°.	
Mar 11	070	18:36-21:51	~320	~180	Mar 11 18:36-19:09	343 ^{1*}	340	3	Cloud	Irregular cloud with twisted, complex, structured (prominence?) material superposed on rays (or streamers.)	
Mar 12	071	06:03-07:36	284	019	—	—	—	0	Missed front	Very faint, very wide cloud (or mound) covers entire west and most of north sector. Brightest over north pole. Possible halo.	
Mar 12	071	11:51-14:58	064	025	—	—	—	0	No obvious front	Irregularly-shaped cloud. Could have missed front.	
Mar 13	072	00:43-03:50	308	028	—	—	—	0	No obvious front	Faint cloud.	
Mar 13	072	14:02-16:00	~250	—	—	—	—	0	No obvious front	Fuzzy cloud superposed on fan.	
Mar 14/15	073/074	15:03-02:04 15:03-18:28 21:33-02:04	062 009 043 033	— — — —	— — — —	0 0 0 0	— — — —	— — — 0	No obvious front Front at 21:33 only	Cloud superposed on streamer. Cloud is concave-outward, 'V'-shaped.	
Mar 15	074	02:21~08:01	189?	168?	—	—	—	0	No obvious front	DATA GAP: Mar 13 22:05 to Mar 14 02:28. Two part event: 1. Fuzzy jet north of streamer. 2. Structured cloud. Deflections.	
Mar 15/16	074/075	05:36~07:55 05:36-07:01	339 060	— —	— —	— —	0 0	— No clear front	No obvious front	Faint loop/cavity (or wisp) superposed on streamer. Brightest from 220°-260°.	
Mar 16	075	02:49~13:42	156	088	Mar 16 02:49-03:14	328 ₁ *	150	2	Loop	Could be two events: 1. Faint cloud (or mound) superposed on and and between streamers. 2. Fuzzy cloud superposed on streamers. Deflections.	
Mar 17	076	05:07-07:22	125	024	Mar 17 05:07-05:32	327 ₁ *	130	3	Mound	Faint, thin loop/cavity with possible core superposed on fan in 02:49 image. Gone by 05:48. Blob 'N' Ray from 09:44 to ~13:42.	
					255 ₂				Narrow mound at north edge of streamer.		

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	
Mar 17	076	09:55-13:02	132	051	—	—	—	—	0	Front at 09:55 only
Mar 17	076	17:50~20:40	~308	~033	Mar 17 17:50-18:23	698 ₁ *	307	3	7	Loop
Mar 17	076	20:48-23:55	133	067	—	—	—	—	0	Front at 22:21 only
Mar 18	077	02:53-06:49	230	062	Mar 18 02:53-03:43	583 ₁	247	4	9	Loop
Mar 18	077	17:01-21:41	117	038	—	—	—	—	0	Front at 18:34 only
Mar 18/19	077/078	18:26-04:27	283	061	Mar 18 19:59-20:32	333 ₁ *	290	3	7	Loop
Mar 19	078	13:30-15:03	~045	—	—	—	—	—	0	Front at 13:30 only
Mar 19	078	16:12-21:08	250	057	Mar 19 16:12-16:53	302 ₁ *	250	4	7	Loop
Mar 19	078	19:26-21:00	111	033	—	—	—	—	0	Front at 19:26 only
										DATA GAP: Mar 19 23:06 to Mar 20 17:00.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Mar 20	079	20:14-23:54	116	068	—	—	—	—	0	Front at 21:48 only
Mar 20/21	079/080	23:54-01:27	177	048	—	—	—	—	0	Front at 23:54 only
Mar 21	080	09:05-22:58	025	041	—	—	—	0	No obvious front	Faint loop/cavity on and south of streamer.
		09:05-15:12	019	052	—	—	—	0	Front at 16:45 only	Deflections.
		16:45-18:19	014	052	—	—	—	0	No obvious front	Could be up to three events: 1. Faint cloud superposed on rays (or streamers). Deflections. 2. Loop/cavity(?) superposed on polar fan. Deflections. Region is disrupted. 3. Cloud superposed on fan. Deflections.
		21:25-22:58	014	052	—	—	—	0	No obvious front	Region is disrupted.
Mar 22	081	01:48-05:20	~105	~080	Mar 22 01:48-03:22	075,*	100	2	3	Cloud
										Broad, very faint cloud extending over large fraction of east limb. Wisp (or loop-like) structure at southern edge.
Mar 22	081	16:29-23:25	073	008	—	—	—	—	0	No obvious front
Mar 23	082	10:18-13:24	075	013	—	—	—	—	0	No obvious front
Mar 23/24	082/083	19:45-01:58	305?	110?	315?	042?	Mar 23 19:45-19:54	14001*	320	Mound
			340	041	Mar 23 19:45-19:54	12601*	337	2	6	Loop
Mar 24	083	all day	116	082	—	—	—	—	1	Loop
										Brightening over all limbs. Deflections.
										Slow expansion of loop/cavity (or mound). Front evolves and fades. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature		
Mar 24/25	083/084	21:10~06:29	273	075	—	—	—	0	Mound at 22:10 only	Flat-topped mound with fuzzy internal loop/ cavity and core at southern edge. Event is superposed on faint streamer. Deflections.		
Mar 25	084	16:40~19:47	287	050	Mar 24/25 22:10-00:16	139 ₁ * 19 ₂	262 520 ₂	3 5	3	Loop	Faint, flat-topped mound (or loop/cavity) superposed on streamer.	
Mar 26	085	12:52-23:45	282?	057?	Mar 26 13:33-14:25	441 ₁ * 492 ₁ *	280 265	3 2	5 3	Mound Cloud	Structured cloud with possible concave-outward shaped cavity at southern edge from 14:50 to ~16:40. Loop/cavity (or mound), appears at 14:50 containing highly structured, loop-shaped (prominence) core.	
					Mar 26 14:50-17:32	219 ₁ * 239 ₂	285	5	7	Core (prominence)	(or mound), appears at 14:50 containing highly structured, loop-shaped (prominence) core. Southernmost edge of (prominence) core evolves into bright hook shape. Event is superposed on streamer. Streamer is disrupted. Deflections.	
					Mar 26 15:58-19:30	136 ₁ 098 ₂ *	269†	8	6	Hook in core (prominence)	Southernmost edge of (prominence) core evolves into bright hook shape. Event is superposed on streamer. Streamer is disrupted. Deflections.	
Mar 26	085	19:13-23:53	043	020	—	—	—	—	0	No obvious front	Jet (or fan) between streamers.	
Mar 27	086	16:46-23:40	278	037	Mar 27 17:10-17:27	422 ₁ *	267	2	3	Southern edge of mound	Two fuzzy blowouts: 1. Fuzzy mound (or cloud) superposed on rays in streaked data.	
					20:09-23:40	276	040	—	—	—	0 No clear front	2. Faint cloud in streaked data.
Mar 28	087	02:05-10:32	—	—	—	—	—	—	1	Cloud	Could be two events: 1. Fuzzy cloud superposed on streamer.	
		02:05-05:53	~278	025	—	—	—	—	0	Front at 04:20 only	2. Loop/cavity and bright, structured (prominence?) core south of streamer. Deflections. Loop/cavity is gone by 05:53. Additional material ejected from 08:59 to 10:32 in same location.	
		04:20-10:32	248	025	—	—	—	—	0	No obvious front	Slow expansion of cloud superposed on fuzzy fan. Ends during data gap. Deflections.	
Mar 28/29	087/088	03:38<18:43	~036	~037	—	—	—	—	0	No obvious front	Slow expansion of cloud superposed on fuzzy fan. Ends during data gap. Deflections.	

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Date	DOY	Time [UT]	Kinematics						Comments	
			Cent PA [deg]	Width [deg]	Trajectory Times [UT]	Speed [km/s]	#Data PA	Pts	Qual	
Mar 28/30 087/089	~07:26~13:13	101	060	—	—	—	1	Loop	Loop/cavity (with core?) expands slowly in streamer. Streamer blows out during data gap from Mar 28 20:51 to Mar 29 18:35. Deflections. Additional material, including possible 'V'-shaped, concave-outward structure at southern edge, ejected from Mar 29 ~22:14 to Mar 30 ~13:13.	
Mar 28	087	11:24-22:32	281	046	Mar 28 11:24-12:05	305 ₁ *	275	3	7	Cavity
					213 ₂					Flat-topped loop/cavity with core superposed on streamer (or fan). Region is disrupted. Deflections. Loop is out of the field of view by 14:30. Additional material (mound?) ejected from ~16:11 until 22:32. DATA GAP: Mar 28 22:32 to Mar 29 18:27.
Mar 30	089	08:58~17:44	300?	111?	Mar 30 08:58-09:07	560 ₁ *	337	2	9	Northern edge of loop
										Thin loop/cavity with amorphous core superposed on streamers. Gone by 09:58. Deflections. Very faint material ejected until ~17:44.
Apr 01	091	19:36?~22:42	322	045	—	—	—	0	No obvious front	DATA GAP: Apr 01 06:18 to 19:28.
Apr 02	092	~08:27~23:58	050?	—	—	—	—	0	No obvious front	Fuzzy cloud superposed on fan. Deflections.
Apr 02/03	092/093	09:59?~04:46	342	—	—	—	—	0	No clear front	Very faint, cloud superposed on streamer.
										Bright jet at northern edge of streamer (or fan).
										'U'-shaped material
Apr 03/04	093/094	23:25~03:56	250	041	—	—	—	0	No clear front	Possible concave-outward, 'U'-shaped material from ~12:41 until 14:31. Material could be falling sunward from 17:21 to 17:37 on Apr 02 and again on Apr 03 from 03:13 to 04:46 at 327°.
Apr 04	094	~12:50-23:42	305	007	—	—	—	0	No obvious fronts	Fuzzy cloud superposed on streamer. Deflections.
										Data is streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Apr 05	095	14:14-23:25	224	035	—	—	—	0	No obvious front	Cloud superposed on streamer. Streamer is disrupted. Data is streaked.
Apr 06	096	08:44-10:17	343	019	—	—	—	0	No clear front	Small,fuzzy cloud superposed on streamer. Deflections.
Apr 07	097	00:07-01:57	098	011	—	—	—	0	No obvious front	Fuzzy fan (or cloud).
Apr 07	097	00:15-23:08	026	—	—	—	—	1	Loop	Could be three events: 1. Loop/cavity rises slowly in streamer. Best seen in early south images. Evolves and fades. Deflections. 2. Jet brightens then expands and fades. 3. Fan ejected just north of streamer in part one. Deflections. Data is streaked.
		00:23~03:05	~310	—	—	—	—	0	No obvious front	Fuzzy mound in streaked data. Deflections.
		20:01-23:08	292	015	—	—	—	0	No obvious front	Loop/cavity and beautiful, highly structured, complex, inner (prominence) loop/cavity. Kink or sharp bend in southern leg of loop. Event is south of streamer. Deflections. Data is streaked.
Apr 07	097	13:41-15:47	093	025	Apr 07 13:41-14:06	773 ₁ *	090	2	5	Mound
Apr 08	098	08:18-13:14	055?	078?	Apr 08 08:27-08:43	730 ₁ *	060	3	9	Loop
			054?	033?	Apr 08 08:27-08:43	264 ₁ *	054†	3	5	Inner loop (prominence)
						293 ₂				Data is streaked.
Apr 08/09	098/099	23:50-01:31	310	025	Apr 08/09 23:50-00:31	337 ₁ *	305	2	2	Fan
Apr 09	099	01:23-03:21	115	061	—	—	—	0	Missed front	Narrow fan. Data is streaked.
Apr 10/11	100/101	18:17-16:00?	115	029	Apr 10 18:17-19:58	073 ₁	117	4	3	Cavity
		18:17~22:20				184 ₂ *				Very faint, structured cloud. Data is streaked. Deflections. Could have missed the front.
		~19:41-16:00?	163	065	Apr 10 21:06-22:56	053 ₁ *	145	2	3	Southeast cavity
										Could be two events. Data is streaked. 1. Thick loop/cavity with amorphous core. Big deflections. 2. Wide, concave-outward, 'U'-shaped material at ~19:58. Moves outward until ~09:48. Faint cavity visible in southeast from ~19:41 until ~19:58. Deflections.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature	
Apr 10/11/100/101	20:58-09:56	003	090	—	—	—	—	1	Loop	Wide, (multiple?) complex loop/cavity with structured core superposed on streamer and fan. Fan is blown out. Big deflections. Data is streaked. Swelling began Apr 09.
Apr 12/13/102/103	early~10:02	286	106	Apr 12/13 22:29-07:48	077 ₁ *	310	5	3	Outer loop	Very slow expansion of cavity on and north of streamer. Fuzzy loop(?) becomes visible around cavity late Apr 12. Inner loop/cavity appear by Apr 13 05:23. Outer and inner loops expand laterally and accelerate outward from Apr 13 05:23 until end of event. Big deflections. Region is blown out. Data is badly streaked.
Apr 12	102	12:19-14:44	157	050	Apr 12 12:19-13:44	200 ₁ *	163	3	Cavity	Mound with cavity superposed on rays in streaked data. Possible concave-outward material from 13:27 until 13:44. Deflections. Data is streaked.
Apr 14	104	~01:25>13:49	090	057	—	—	—	0	No clear front	Slow, broad, faint cloud. Ends in data gap. Data is streaked.
Apr 14	104	08:37-10:49	261	029	Apr 14 08:54-09:02	659 ₁ *	268	2	Tongue	Structured, tongue (or loop/cavity) in streamer. Visible in polaroid filter sequence only. DATA GAP: Apr 14 13:57 to Apr 15 18:43.
Apr 17	107	all day	001	068	—	—	—	0	No obvious front	Slow expansion of streamer (or fan). Deflections. Region is disrupted.
Apr 18	108	06:13-09:27	> 134	> 056	Apr 18 07:13-07:37	536 ₁ *	150	4	Loop	Irregular, structured, dimpled (multiple?) loop/cavity and possible core superposed on and south of streamer. Deflections. DATA GAP: Apr 18 21:35 to Apr 20 15:02.
Apr 21	111	02:01-20:38	020	028	—	—	—	1	Two piece event:	1. Fuzzy cloud superposed on ray in very streaked data. Deflections. 2. Narrow jet (or fan) south of cloud in part one. Very streaked data.
		18:57-20:38	265	—	—	—	—	0	No obvious front	

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Date	DOY	Time [UT]	Cent PA [deg]	Widthb [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Apr 22	112	01:17-12:00?	314?	076?	Apr 22 01:17-01:25	4201*	335	2	5	First inner loop
Apr 23	113	03:55-06:36	102	045	—	—	—	—	0	Front at 03:55 only
Apr 23	113	08:51-12:48	143	044	Apr 23 09:42-10:16	477 ₁ * 623 ₂	140†	5	9	Back edge of 'question-mark' core (prominence)
Apr 23/24	113/114	16:03-08:07	274	057	Apr 23 16:03-18:09	277 ₁ * 334 ₂	280	4	6	Loop
Apr 24/26	114/116	17:00-06:37	243	032	—	—	—	1	Cloud (late in event)	Slow expansion of streamer. Cavity visible early Apr 25. Cavity accelerates early Apr 26.
Apr 24	114	21:47-23:28	128	—	—	—	—	0	No clear front	Fuzzy cloud is ejected Apr 26 from 02:49 until ~06:37. Region is disrupted. Deflections. Cavity width measured at 3.0R _○ . Data is streaked.
Apr 28	118	02:52<12:26	030	—	—	—	—	0	No obvious front	Blob 'N' Ray. Data is streaked.
Apr 28	118	02:52<12:26	030	—	—	—	—	0	No obvious front	DATA GAP: Apr 26 15:46 to Apr 27 13:12. Narrow fan in 02:52 image only. Data gap follows.
Apr 28/29	118/119	23:26-22:57	112	081	Apr 28 23:26-23:35	412 ₁ *	125	2	7	Loop
	118/119	23:26-00:59	119	21:16-22:57	092	—	—	—	0	No obvious front
										2. Blob superposed on streamer.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Apr 30	120	09:07~16:00	248	050	—	—	—	—	0	Loop at 09:07 only	Loop/cavity and possible core superposed on streamer. Data is streaked.
May 02	122	20:07-21:49	~237	~045	—	—	—	—	0	No clear front	DATA GAP: May 02 02:05 to 13:47.
May 03	122/123	21:32-02:11?	305	018	—	—	—	—	0	No obvious front	Cloud superposed on and north of streamer in very streaked data. Deflections.
May 03	123	04:00-05:50	028	044	—	—	—	—	1	Loop	Narrow fan with small cavity. Data is streaked.
May 03	123	04:17-08:58	~090	~019	—	—	—	—	0	No obvious front	Faint loop/cavity superposed on streamers (or fan). Data is streaked.
May 03/04	123/124	21:03-00:09	248	065	—	—	—	—	0	No clear front	Cloud superposed on streamer. Streamer is disrupted. Data is streaked.
May 06	126	14:06-17:11	251	047	May 06 15:22-15:39	573 ₁ *	233	3	3	Southern edge of outer cavity	Structured cloud superposed on and north of streamer. Data is very streaked.
May 06					May 06 15:22-15:39	278 ₁ *	233	3	4	Inner cavity	Multiple, concentric loops/cavities superposed on and north of streamer. Deflections. Region is disrupted. Data is streaked.
May 06/07	126/127	21:50~10:13	~194	~088	May 06 22:07-23:23	251 ₁ *	168	2	3	Cavity	Wide loop/cavity and inner, structured (prominence) loop/cavity all superposed on and south of streamer. Spans pylon shadow. Poor data quality. Deflections.
May 07/08	127/128	23:02~05:14	260	027	—	—	—	—	1	Clouds	Two clouds superposed on streamer in badly streaked data. First cloud ejected from 23:02~01:26. Deflections. Second cloud ejected from 03:32 until ~05:14.
May 08	128	11:17~19:01	145	043	—	—	—	—	0	No obvious front	Cloud expands and disrupts streamer in badly streaked data.
											DATA GAP: May 09 06:00 to 13:03.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments			
					Trajectory Times [UT]	Speed PA [km/s]	# Data Pts	Qual	Feature					
May 09	129	16:25-21:13	249	030	May 09 16:25-18:24	049 ₁ *	250	2	5	Cavity	Loop/cavity and possible core superposed on streamer. Streamer is disrupted. Deflections.			
May 10	130	all day	068	086	—	—	—	—	0	No clear front	Broad faint cloud on and north of streamer. Region is disrupted. Deflections. Data is very streaked.			
May 10	130	10:44-15:56	248	044	May 10 10:44-11:25	376 ₁	250	4	7	Loop	Loop/cavity and core superposed on fan (or streamer). Region is partially blown out. Deflections. Data is streaked.			
					May 10 11:00-12:25	474 ₂ *	242 ₁ *	250	4	Cavity	DATA GAP: May 10 01:51 to 10:44.			
May 13	133	16:09-19:47	267	046	May 13 16:42-17:41	443 ₁ *	260	3	5	Outer cavity	Bright loop/cavity in streamer in 16:58 image. Multiple(?) dimpled loops/cavities with core by 17:41. Streamer is blown out. Deflections. Data is streaked.			
					552 ₂	—	—	—	—	Loop	Faint loop(?)/cavity with loop-shaped core superposed on streamer.			
May 15	135	02:21-10:38	150	061	May 15 02:21-04:36	101 ₁ *	147	4	3	Loop	Could be three events in streaked data: 1. Blob 'N Ray. 2. Another Blob 'N Ray.			
					178 ₂	—	—	—	0	No clear front	3. Blob (or wave) 'N Ray. All blobs appear to be concave-outward, 'U'-shaped.			
May 15	135	09:57-19:40	09:57-11:55	~271	~010	—	—	—	—	Outer loop	Broad loop/cavity with brighter, embedded, structured (prominence?) loop/cavity.			
					13:03-14:36	~270	~010	May 15 13:03-13:53	433 ₁ *	267	3	4	Outer cavity	Loop/cavity is superposed on and south of streamer. Southern edge is obscured by pylon shadow. Could extend as far south as 235°.
					457 ₂	—	—	—	0	No clear front	Streamer is disrupted. Data is streaked.			
May 15	135	16:42-17:50	134?	093?	May 15 16:42-16:50	1198 ₁ *	160	2	4	Outer loop				
					May 15 16:42-16:50	775 ₁ *	160	2	4	Outer cavity				

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
May 16	136	03:08-04:32	070	013	May 16 03:08-03:16	521 ₁ *	070	2	7	Loop (prominence?)	Small, structured (prominence?) loop/cavity south of streamer. Data is streaked. Deflections.
May 16/17	136/137	17:37-05:36?	242	048	—	—	—	—	1		Mound (with cavity?) superposed on streamer in streaked data. Possible concave-outward, 'U'-shaped material at northern edge of event. Deflections. Region is disrupted.
May 18	138	06:39-16:04?	097?	050?	—	—	—	0	No obvious front		DATA GAP: May 17 05:36 to May 18 04:33. Very faint cloud superposed on streamers.
May 19	139	17:44-19:41	< 289	> 070	May 19 17:44-18:09	210 ₁ *	305	2	5	Loop	Loop/cavity superposed on fan. Missing data south of 254°. Deflections.
May 19	139	19:25-20:58	097	—	—	—	—	0	No obvious front	Cloud superposed on streamer.	
May 20	140	09:46-10:54	~122	~083	—	—	—	—	0	Front at 09:46 only	Probable loop/cavity superposed on and between streamers. Visible in 09:46 image only. Region is disrupted. Big deflections.
May 20	140	11:02-16:14	292	085	May 20 11:11-11:35	726 ₁ *	270	2	7	Loop	Structured loop/cavity superposed on streamer. (Prominence?) Blobs (or jets) at 255° and 270° superposed on rays. Deflections.
May 20/21	140/141	~17:39-~13:13	103	020	—	—	—	—	0	No clear front	Slow expansion of cloud around streamer.
May 21	141	07:43-10:32	~228	~023	—	—	—	—	0	Front at 07:43 only	Cloud superposed on rays (or streamers). Deflections. Could extend as far south as 152°.
May 22	142	06:56-11:35	~209	~058	May 22 06:56-08:04	320 ₁ *	210	3	7	Loop	Loop/cavity with structured, inner (prominence) loop/cavity superposed on and south of streamer. Southern edge obscured by pylon shadow.
					May 22 06:56-08:04	473 ₂	210	4	9	Inner loop (prominence)	Additional structured, knotty material follows inner loop from 07:39 to ~11:10. Deflections. Some streaking in data.

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Date	DOY	Time [UT] [deg]	Cent PA Width Times [UT] [deg]	Kinematics					Comments
				Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
May 22	142	17:21-23:58 17:21-18:54 23:08-23:58	291 023 289	— — —	— — —	0 0	Front at 17:21 only 1. Small cloud superposed on faint streamer. 2. Mound superposed on and south of streamer.	Could be two events. Data is streaked. Images are streaked and contain data dropouts.	
May 23	143	09:58-12:04	~225	~017	— — —	— — —	0	No clear front	Structured, knotty (prominence) material visible in west sector images. Event is obscured by pylon shadow. Data is streaked. Deflections.
May 23	143	15:01-16:34	~264	~037	— — —	— — —	0	No clear front	Faint loop/cavity (or mound) between streamers in streaked data. Bright blob seen at south edge in 15:26 image. Deflections.
May 24	144	09:52-14:39 09:52-11:08 11:08-14:39	240 038	May 24 09:52-10:43 407 ₁ *	240	2 4	First loop Second loop	1. Bright loop/cavity superposed on streamer. 2. Bright, sharper, structured loop/cavity superposed on streamer. Concave-outward, 'U'-shaped material at 13:49. Streamer is disrupted. Deflections throughout event.	Could be two events. Data is streaked.
May 24/25	144/145	19:17~06:50	284	097	May 24 19:17-21:58 054 ₁ *	305	5 4	First loop	Faint, fuzzy loop/cavity superposed on faint streamer at 19:17. Structured, complex loop/cavity(?) with structured core blows out south of first loop at 21:58. Region is disrupted. Deflections. Data is streaked.
May 25	145	13:43-21:18	064	057	May 25 13:43-15:07 200 ₁ *	070	3 4	First loop Cavity in core	Loop/cavity with amorphous core superposed on and north of streamer. Second loop/cavity embedded in core at 16:40. Data is streaked. Deflections.

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Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	#Data PA	Pts Qual	Feature	
May 26	146	00:08-03:38	238	046	May 26 00:08-01:24	298 ₁	240	4	7	Outer cavity
						497 _{2*}				Multiple loops/cavities superposed on fan (or rays). Region is disrupted. Embedded cavity and concave-outward material from ~01:24 to ~02:57. Data is streaked. Deflections.
May 26	146	~14:03-16:02	212?	115?	—	—	—	—	1	Cloud
						—	—	—	0	No clear front
May 28	148	04:53-06:34	~078	~020	—	—	—	—	0	Wide(?) cloud. Could span pylon shadow. Deflections. Data is streaked.
						—	—	—	0	Small loop(?)/cavity north of streamer. Data is streaked.
May 28	148	12:37-17:31	267	032	May 28 12:37-13:45	291 _{1*}	271 _{1†}	3	3	Cloud
						394 ₂				Faint cloud (or mound) superposed on and north of ray. Deflections. Data is streaked.
May 28	148	18:56-23:34	093	024	—	—	—	—	0	Front at 20:29 only
						—	—	—	0	Thin loop(?)/cavity in streamer. Streamer is blown out. Deflections. Data is streaked.
May 31	151	00:47-07:23	200?	—	—	—	—	—	0	No clear front
						—	—	—	0	Cloud partially obscured by pylon shadow. Data is streaked. Deflections.
Jun 01	152	01:48-20:05?	132	028	—	—	—	—	0	DATA GAP: May 31 15:07 to 22:09.
						—	—	—	0	Material superposed on streamer. Material is ejected throughout day.
Jun 01	152	~08:00-18:57	~323	—	—	—	—	—	0	No obvious front
						—	—	—	1	Diffuse cloud with concave-outward shaped base superposed on streamer. Appears to detach from streamer. Region is disrupted. Mound and rays are left behind.
Jun 01/02	152/153	21:38-04:05	170?	045?	Jun 01/02 21:38-02:16	052 ₁	162	4	3	Loop
						081 _{2*}				Faint loop/cavity (or mound) south of streamer. Simultaneous ejection of material in adjacent streamer.
Jun 02	153	05:39-13:22	107	065	—	—	—	—	0	Irregular, outer, dimpled loop/cavity with complex core containing thick, inner loop/cavity between streamers. Big deflections. Loop is gone by 06:38. Material continues to be ejected in region until ~13:22.

† Position of feature was measured along a non-radial line.

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Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jun 02	153	07:19~23:55	246?	067?	—	—	—	1	Cloud	Slow expansion of structured cloud in streamer. Data gap occurs during event. Streamer is disrupted. Deflections. Could extend as far south as 175°.
Jun 03/04	154/155	13:50-05:34	133	028	—	—	—	0	Front at 13:50 only	DATA GAP: Jun 02 15:03 to 22:06.
Jun 03/04	154/155	23:31-23:34	257	046	—	—	—	1	Cloud	Loop/cavity superposed on rays. Gone by 15:22. Deflections. Material is ejected in region until ~05:34 on Jun 04.
	155	~03:28~16:15			—	—	—	1	Cavity	Four part event:
	155	17:23-17:43			—	—	—	0	Front at 17:23 only	1. Cloud superposed on streamer.
	155	~20:28-23:34			—	—	—	0	No clear front	2. Cavity with structured core. Core has concave-outward, 'V'-shape.
Jun 04	155	08:06~10:20	~323	~013	—	—	—	1	Cavity	3. Concave-outward, 'U'-shaped material in 17:23 image at north edge of event.
Jun 04	155	07:07-12:53	030	057	—	—	—	1	Cavity	4. Fuzzy material ejected until ~23:34. Region is partially blown out.
Jun 04	155	11:20~15:58	024	041	—	—	—	0	Front at 11:20 only	Narrow fan with cavity and internal structure appears and blows out.
	019	011	Jun 04 11:20-12:53	231,*	020	2	9	Inner loop (prominence)		Loop/cavity superposed on streamer. Deflections.
Jun 05	156	18:32-21:54	315	—	—	—	—	Loop/cavity superposed on streamer immediately following previous event. Deflections continue. Streamer is blown out.		Faint loop/cavity (or mound) in streaked data.
Jun 13	164	10:11-20:59	024	038	—	—	—	0	No clear front	DATA GAP: Jun 06 23:46 to Jun 12 14:22.
Jun 14	165	15:24-18:29	303	024	—	—	—	0	Too faint	Slow expansion of material superposed on streamer. Deflections. Data is streaked.
								Mound (or loop/cavity) superposed on fan (or streamers). Data is streaked.		

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT] [deg]	Cent PA Width [deg] [deg]	Kinematics					Comments
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jun 14	165	15:40-20:18	250	037	—	—	—	0	Front at 17:13 only
Jun 15	166	09:56-12:10	293	051	—	—	—	0	No obvious front
Jun 15/16	166/167	<22:17-07:33?	280	029	—	—	—	0	No clear front
Jun 16	167	05:10~19:53	~252	—	—	—	—	1	Cloud
Jun 16	167	17:21-20:26	107	029	—	—	—	0	Front at 17:21 only
Jun 17	168	01:12-04:18	290	020	—	—	—	0	Front at 02:03 only
Jun 17	168	09:47~13:17	272	036	Jun 17 09:47-10:28 456 ₁ * 407 ₂	270	3	7	Loop
					Jun 17 09:47-10:28 314, 431 ₂ *	270	4	9	Core
Jun 17	168	14:25-17:30?	296	033	Jun 17 14:25-15:57 394, 565 ₂ *	300	4	7	Loop
Jun 17	168	16:22~19:44	291	076	—	—	—	1	Loop/cavity with core superposed on fan (or rays). Deflections.
Jun 18	169	05:00-10:45	268	013	Jun 18 05:00-06:33 239 ₁ *	263	2	5	Tongue
					Jun 18 09:13-09:21 278 ₁ *	261	2	5	Cloud
Jun 18	169	13:34~23:15	292	023	—	—	—	1	Cloud
Jun 18	169	15:07-15:32	259?	092?	Jun 18 15:07-15:24 944 ₁ *	234	3	5	Loop
					1228 ₂				is visible in rolled images. Deflections.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jun 18/21	169/172	18:45-20:59?	103	061	—	—	—	—	0	No obvious front
										Continual ejection of faint material superposed on east limb structures. Brighter, sharper material ejected in equatorial streamer from ~18:36 on Jun 20 until midday Jun 21. Material is concave-outward shaped. Streamer is blown out. Deflections. Data is streaked.
Jun 19	170	08:06-13:09	268	044	Jun 19 09:38-11:11	228 ₁ *	272	4	4	Loop
					310 ₂					Faint loop/cavity with brighter, flattened, structured core superposed on streamer. Streamer is disrupted. Deflections. Data is streaked.
Jun 20	171	11:53-15:06?	330	048	Jun 20 11:53-12:34	223 ₁ *	335	4	7	Outer loop
					324 ₂					Loop/cavity with multiple loops/cavities in core all superposed on south edge of streamer. Could extend further south. Data is streaked.
Jun 20	171	15:23-21:33?	293	028	Jun 20 15:23-15:39	246 ₁ *	295	2	7	Loop
					Jun 20 15:23-17:13	172 ₁ *	292†	3	7	Core (prominence) (before falling)
					019 ₂					mound-shaped (prominence) core superposed on rays. Part of (prominence) core falls sunward by 18:00. Data is very streaked.
Jun 20/21	171/172	22:41-00:14	274	041	Jun 20 22:41-23:22	579 ₁ *	275	3	4	Cavity
					553 ₂					Structured (multiple?) loop/cavity with amorphous core at south edge of streamer. Streamer is partially blown out. Big deflections. Data is streaked.
Jun 21	172	00:38-02:28	276	040	Jun 21 00:39-00:55	281 ₁ *	275	2	3	Loop
										Faint loop/cavity at south edge of streamer. Data is streaked.
Jun 21	172	09:30-11:02	261	039	Jun 21 09:30-09:54	319 ₁ *	255	3	2	Cloud
					470 ₂					Faint cloud. Data is very streaked.
Jun 23	174	03:18~11:01	~148	~025	—	—	—	—	0	No obvious front
										Structured material superposed on fan (or streamer). Data is streaked.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Jun 23	174	14:31-17:36	~223	~040	Jun 23 14:47-16:20	233 ₁	240	4	2	Northern edge of loop	Loop/cavity and core in streamer (or fan). 'Light-bulb' shaped in 16:04 image. Southern edge obscured by pylon shadow. Region is blown out. Deflections. Data is streaked.
Jun 23	174	17:36-20:08	281	082	Jun 23 17:36-18:36	467 ₁ * 530 ₂	264	3	4	Loop	Wide, faint loop/cavity superposed on streamer. Data is streaked.
Jun 25	176	18:34-20:40	~055	~070	—	—	—	—	1	Cloud	Broad cloud superposed on streamer. Data is streaked.
Jun 26	177	21:05-22:13	300?	080?	—	—	—	—	0	Too faint	Very faint cloud superposed on streamer.
Jun 28	179	12:56-16:35	082	051	Jun 28 12:56-13:29	576 ₁ *	078	3	7	Loop	Loop/cavity superposed on south edge of streamer. Deflections.
Jun 29	180	03:31-04:56	340	034	—	—	—	—	0	No obvious front	Faint cloud superposed on faint streamer.
Jun 29	180	10:33-14:11	~080	—	—	—	—	—	0	No obvious front	Could be two events: 1. Jet (or wisp) superposed on rays (or fan). 2. Fuzzy cloud superposed on fan. Could extend as far south as 160°.
Jun 29	180	12:39-14:11	~108	—	—	—	—	—	0	No obvious front	Thick loop/cavity superposed on faint fan. Fan is disrupted.
Jun 29	180	10:50-15:27	300	035	Jun 29 10:50-11:57	216 ₁ * 130 ₂	300	3	6	Loop	Multiple, concentric, structured loops/cavities superposed on rays. Inner loop could contain prominence material. Deflections.
Jun 29	180	21:29-22:03	332	051	Jun 29 21:29-21:38	1373 ₁ *	323	2	7	Outer cavity	Concentric loops/cavities and core superposed between streamers. Big deflections. Region is disrupted. Data is streaked.
Jun 30	181	06:29-10:24	104	046	Jun 30 06:29-06:54	518 ₁ * 644 ₂	105	3	4	Outer loop	Concentric loops/cavities and core superposed between streamers. Big deflections. Region is disrupted. Data is streaked.
Jul 03	184	13:22-18:08	105?	050?	—	—	—	—	0	No obvious front	Cloud superposed on and between streamers. Data is very streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Jul 04	185	09:52-15:45	023	052	Jul 04 11:07-12:40	2631*	025	2	6	Outer loop
										Thick loop/cavity with thick, structured inner loop/cavity in streamer. Streamer is blown out. Deflections.
										DATA GAPS: Jul 06 14:35 to Jul 07 15:59. Jul 07 18:21 to 20:36.
Jul 07	188	21:01-23:41	2707	027?	Jul 07 21:09-21:26	2461*	265	2	5	Loop
										Loop/cavity and core superposed on and south of streamers. Best seen in 21:09 image. Core is concave-outward shaped at 23:41.
Jul 09	190	01:54-03:27	289	021	—	—	—	—	0	No clear front
										Faint cloud superposed on streamer.
Jul 09/10	190/191	18:52-01:02	282	052	Jul 09 18:52-21:57	1801*	290	4	3	Outer loop
										Concentric, complex loops/cavities and core in streamer. Streamer is disrupted.
Jul 11	192	00:43-05:21	068	035	—	—	—	—	1	Inner loop
										No obvious front
Jul 09/10	190/191	22:13<09:01	~162	~035	—	—	—	—	0	Missed front
										Loop(?)/cavity and core between streamers. Deflections. Probably missed the front.
Jul 12	193	20:00~23:05	310	043	—	—	—	—	1	Loop
										Faint loop/cavity superposed on rays. Deflections.
Jul 13	194	01:29~06:48	307	039	Jul 13 01:29-02:10	3921*	315	4	5	Loop
										Faint loop/cavity superposed on rays. Region is disrupted. Deflections.
Jul 13	194	03:26~17:27	160	024	Jul 13 03:26-05:08	0721*	154	3	7	Core (prominence?)
										Cavity and structured (prominence?) core in U-shaped material from 06:06 to ~08:21. Streamer is blown out.
										DATA GAPS: Jul 13 20:31 to 22:04. Jul 16 09:45 to 14:39.
Jul 17/18	198/199	22:44~02:14	098	050	—	—	—	—	1	Loop
										Faint loop/cavity(?) with complex, flattened core at north edge of fan. Faint material could have been ejected earlier. Deflections.
										DATA GAP: Jul 18 09:31 to 15:33.

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 Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).
 * Preferred fit to the data. This quantity is included in the speed histograms.

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Date DOY	Cent PA [deg]	Width [deg]	Kinematics						Comments
			Trajectory Times [UT] [deg]	Speed PA [km/s]	# Data Pts	Qual	Feature		
Jul 18 199	15:41-18:46	041	021	—	—	—	0	Front at 15:41 only	Highly structured, knotty (prominence) material between streamers. We could have missed coronal front between 08:24 and 15:41 images.
Jul 19 200	~04:09-23:54?	301	034	—	—	—	1	Mound	Mound with cavity and structured core rises slowly in faint rays. Region is disrupted. Deflections.
Jul 19/20 200/201	06:57-03:24	070	039	—	—	—	0	Front at 22:55 only	Slow expansion of material around streamer. Second, brighter, structured, helmet-shaped material superposed on streamer in 22:55 image only. Deflections.
Jul 20 201	11:22-15:18	262	044	Jul 20 11:22-12:38 437 ₂	385,*	265	3	Mound	Structured mound (or cloud) superposed on streamer. Deflections.
Jul 20 201	12:22-20:29	071	038	—	—	—	1	Cloud	Cloud superposed on streamer.
Jul 21 202	02:38-14:41	~106	~032	—	—	—	0	No clear front	Fuzzy cloud around streamer. Streamer is disrupted. Deflections. Motion as far north as 073°.
Jul 22 203	06:23-09:36	123	033	—	—	—	1	Cloud	Fuzzy cloud with embedded structured loop/cavity superposed on streamer. Streamer is disrupted. Deflections.
									DATA GAPS: Jul 22 12:40 to 15:04. Jul 23 06:28 to 12:37.
Jul 23 204	~14:26-23:49	212	025	—	—	—	0	No obvious front	Faint cloud partially obscured by pylon shadow.
Jul 24/25 205/206	~22:30-12:22	278	065	Jul 25 00:02-07:44 -005 ₂	012 ₁ *	280	4	Cavity	DATA GAPS: Jul 23 20:44 to 23:44. Jul 23 23:49 to Jul 24 11:43. Slow rising mound with cavity superposed on and north of streamer. Region is blown out following data gap between 08:09 and 12:22 images. Deflections.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Cent PA	Width	Kinematics						Comments		
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature			
Jul 25	206	01:43-04:40	035	016	Jul 25 01:43-03:24	1151*	040	2	3	Mound	Mound (or cloud) superposed on rays between streamers. Moves outward and equatorward. Deflections.	
Jul 25	206	08:18-12:30	045	031	—	—	—	0	Front at 08:18 only	Mound (or loop/cavity) on rays between streamers. Data gap follows immediately after start of event. Region is disrupted. Deflections.		
Jul 26	207	14:32-17:37	287	048	Jul 26 14:32-15:14	4651*	285	3	8	Outer loop	DATA GAP: Jul 25 08:26 to 12:22.	
					Jul 26 16:05-16:46	4522	6421*	290	3	8	Second cavity	Complex multiple(?) loops(?)/cavities and structured core superposed on faint rays and streamers. Region is disrupted. Deflections.
Jul 27	208	01:19<10:33	307	019	—	—	—	0	Too faint	Jet (or fan) along rays followed by faint cloud with embedded, complex, structured (prominence) loops/cavities at 03:33. Loops are located just south of jet. Deflections.		
Jul 27	208	03:33-05:06	287	027	Jul 27 03:33-05:06	2991*	280	2	5	Outer loop (prominence)	Region is disrupted. Deflections.	
Jul 27	208	18:15~20:12	285	045	Jul 27 18:15-18:56	4771*	285	3	7	Loop	Fuzzy, structured loop/cavity superposed on rays. Deflections.	
Jul 27/28	208/209	23:17~01:57	292	028	Jul 27/28 23:17-00:25	3231*	300	3	3	Mound	Structured mound (or loop/cavity and core) superposed on rays. Deflections.	
Jul 28	209	06:34<11:11	294	052	—	—	—	1	Loop	Faint, complex loop/cavity superposed on and between streamers in polaroid filter sequence. Ends in data gap. Deflections.		
Jul 28	209	11:36-12:44	284	032	Jul 28 11:36-11:53	7021*	285	2	6	Loop	DATA GAP: Jul 28 07:16 to 11:11.	
Jul 29	210	19:39-23:17	162	—	Jul 29 19:39-20:12	4891*	162	5	3	Cloud	Fuzzy, structured loop/cavity(?) between streamers. Deflections.	
						3752					DATA GAP: Jul 29 04:32 to 17:59.	
											Faint cloud between streamers. Southern edge is obscured by pylon shadow.	

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Cent PA	Width	Kinematics						Comments
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Jul 30	211	03:46-06:59	310	021	—	—	—	1	Cloud	DATA GAP: Jul 30 00:33 to 03:13. Cloud superposed on and south of streamer. Deflections.
Jul 30	211	10:04~14:24	316	033	—	—	—	1	Loop	Thin loop/cavity(?) with amorphous core superposed on and south of streamer.
Jul 30	211	16:05?~19:10	~106	~048	—	—	—	0	No obvious front	Fuzzy cloud superposed on streamer (or fan).
Jul 30	211	16:14?~20:09	322	047	—	—	—	1	Core	Broad, faint loop/cavity with diffuse core superposed on and south of streamer. Deflections.
										DATA GAPS: Jul 31 01:27 to 07:37. Jul 31 07:37 to 10:00.
Jul 31	212	07:37-10:30	111	034	—	—	—	0	Front at 07:37 only	Loop/cavity (and core?) between streamers in partial image at 07:37. Deflections.
Jul 31	212	14:37~16:09	332	043	—	—	—	1		Faint cloud superposed on and south of streamer.
Jul 31	212	16:26<19:31	239	038	—	—	—	0	Front at 16:23 only	Faint mound (or thick loop/cavity) superposed on fan. Deflections.
Jul 31/Aug 01	212/213	19:22-11:11	~105	~042	Jul 31 19:22-19:47	4451*	092	2	Northern edge of mound	1. Structured mound (or loop/cavity and core) superposed on and between streamers. Deflections. Region is disrupted. 2. Faint cloud superposed on streamer.
	213	06:00~11:08	135	024	—	—	—	0	No obvious front	DATA GAP: Aug 01 06:42 to 09:05.
Aug 01/02	213/214	22:56-01:10	240	040	Aug 01 23:21-23:38	4171*	235	2	Mound	Faint mound superposed on fan. Deflections.
Aug 02	214	11:48-14:52	118?	043?	—	—	—	0	No obvious front	Very faint cloud(s?) superposed on fan (or streamers). Deflections.
Aug 02	214	16:00-21:02	116	083	Aug 02 16:00-16:25	5151*	088	2	Northern edge of outer loop	Broad, thin outer loop/cavity with thick, inner loop/cavity superposed on existing rays and streamers. Region is disrupted. Big deflections.
					Aug 02 16:00-16:25	4681*	088	2	Northern edge of inner loop	Wisp, or deflected pre-existing structure, is bent around southern edge of front.

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 * Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT] [deg]	Trajectory Time [UT] [deg]	Speed [km/s]	Speed PA	#Data	Kinematics		Comments			
							Cent PA [deg]	Width [deg]	PA	Pts	Qual	Feature
Aug 02/03	214/215	23:42-04:44?	106	026	—	—	—	—	—	0	Front at 00:06 only	Faint cloud superposed on rays. Deflections.
Aug 03	215	01:47-04:52	347	059	Aug 03 02:38-03:19	219 ₁ * 329 ₂	340	3	7	Outer loop	Thick loop/cavity with thick, (multiple?) structured, inner loop/cavity superposed on and south of streamer. Deflections.	
			338	027	Aug 03 02:38-04:10	254 ₁ 397 ₂ *	335	4	7	Inner loop	DATA GAP: Aug 03 04:52 to Aug 04 22:21.	
Aug 04/05	216/217	<23:48>13:39	126	052	Aug 05 04:26-09:03	120 ₂ *	125	3	6	First cavity	Cavity in streamer, visible after data gap in 23:48 image. Cavity rises slowly. Loop becomes visible around cavity. Structured core with loop(?)/cavity appear at 10:35. Streamer blows out. Deflections. Starts and ends in data gap.	
					Aug 05 10:18-11:50	050 ₁ * 026 ₂	138	3	6	Cavity (in core)	Loop/cavity and core between streamers. Deflections. Ends in data gap.	
Aug 05	217	11:42>13:39	071	042	Aug 05 11:42-13:14	212 ₁ *	062	3	5	Loop	DATA GAP: Aug 05 14:39 to Aug 06 18:21.	
						087 ₂						
Aug 06	218	<18:29-21:59	116	062	—	—	—	—	1	Loop	Multiple loop/cavity with complex core. Core contains bright, structured (prominence?) material. Loop edge is visible at 18:29. Loop front is visible at 18:54. Data gap follows. Deflections.	
Aug 07	219	00:47-07:22	146?	040?	Aug 07 05:07-05:24	210 ₁ * 207 ₂	135	3	3	Loop	Structured, complex, irregular cloud with faint, embedded loops(?)/cavities and possible concave-outward, 'U'-shaped material. Edge obscured by pylon shadow. Deflections.	
Aug 07	219	00:55-06:40	273	067	Aug 07 01:12-02:44	176 ₁ * 163 ₂	285	3	5	Mound	Faint mound superposed on streamer. Deflections.	
Aug 07	219	07:13-08:45	114	077	—	—	—	—	0	Front at 07:22 only	Broad, complex loop/cavity with structured core superposed on and between streamers. Region is disrupted. Deflections.	
											DATA GAPS: Aug 08 03:13 to 04:46. Aug 08 14:59 to 16:56.	

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Aug 08/09	220/221	23:30-03:25	082	051	Aug 08/09 23:30-00:54	285 ₁ *	086	4	7	Cavity	Structured loop/cavity superposed on fan (or streamers). Deflections.
Aug 11	223	09:34-10:41	~235	—	—	—	—	—	0	No obvious front	DATA GAPS: Aug 09 23:34 to Aug 10 13:08.
Aug 12	224	11:27-23:54	065	054	Aug 12 12:00-12:59	276 ₁ *	067	2	3	Cloud	Two part event. Swelling began Aug 11. 1. Fuzzy cloud (or mound) superposed on faint fan.
		12:59-14:32	072	046	Aug 12 12:59-13:32	450 ₁ *	067	3	7	Loop	2. Structured loop/cavity (and core?) superposed on faint fan (or steamer). Deflections.
Aug 12	224	14:40~16:45	267?	085?	—	—	—	—	0	Front at 14:48 only	Region is disrupted.
Aug 12/13	224/225	17:53~01:59	264?	062?	Aug 12 18:01-19:25	304 ₁ *	265	4	7	Loop	Broad, faint, structured cloud. Deflections. Could be wider.
					256 ₂						Complex (multiple?) loop/cavity with structured core centered on steamer and fan. Loop has flattened front in 19:25 image. Loop is gone after 19:25. Region is partially blown out. Deflections. Irregular material continues to be ejected until ~01:59 the next day. Event could extend as far north as 320°.
Aug 14	226	01:03-01:46	256	046	—	—	—	—	0	Front at 01:03 only	Fast, bright, structured, (multiple?) thin loop/cavity with fainter, adjacent loop/cavity to the south. Top of bright loop is at ~2.5R _⊕ . Event is in 01:03 image only. Big deflections.
Aug 14	226	08:29~12:49	060	038	Aug 14 08:29-10:01	126 ₁ *	050	2	5	Loop	Fuzzy loop/cavity with structured core between streamers. Deflections.
Aug 14	226	15:53-20:30	~013	~026	—	—	—	—	0	No obvious front	Small cloud in streamer. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature		
Aug 15	227	01:24~06:17	242?	095?	Aug 15 02:23-02:48	7481*	276	2	9	Outer loop	
					Aug 15 02:23-02:48	5891*	254	2	6	Blob in core	
Aug 16	228	01:28~05:22	257	055	—	—	—	0	Front at 01:28 only	Wide, complex, structured, multiple loops/cavities with complex, multiple, structured inner loop/cavity and structured core superposed on rays. Region is blown out. Big deflections. Could extend as far south as 175°.	
					Aug 16 02:17-03:42	0561*	267†	2	7	Inner loop (prominence?)	Wide, complex, structured, multiple loops/cavities with complex, structured, twisted core superposed on faint structures. Bright, structured, narrow loop/cavity (prominence?) from 01:52<05:14. Region is disrupted. Big deflections. Slow brightening and swelling of material for ~16 hours prior to event.
Aug 16	228	20:20-21:27	~249	~090	Aug 16 20:20-20:45	4321*	210	3	5	Southernmost edge of loop	Very faint loop/cavity span pylon shadow in rolled south images from 20:20 to 20:45. Best seen in subtractions. Southernmost edge is brightest and dimpled (or concave-outward).
						6322				No obvious front	Bright jet superposed on fan. Could be part of previous event.
Aug 16	228	21:27-23:00	~307	—	—	—	—	0	—	—	Two concentric, bright loops/cavities at south edge of fan in 00:57 image. Complex, multi-featured, structured core visible from 01:05 to 01:22. Fan is disrupted. Big deflections.
Aug 17	229	00:57~04:26	261	044	Aug 17 00:57-01:05	2101,*	260	2	7	Outer loop	Faint loop/cavity superposed on streamers and rays. Deflections. Could be much wider.
										Loop	Structured loop/cavity and brighter, highly structured, complex, 'harpoon'-shaped, inner (prominence) core between streamer and fan. Fan to the south is disrupted.
Aug 17	229	10:19~11:43	309?	053?	Aug 17 10:19-10:27	5611*	330	2	5	—	Big deflections.
Aug 17	229	18:59~22:54	255	070	—	—	—	0	Front at 18:59 only	—	
					Aug 17 18:59-19:24	12881*	263	2	7	Harpoon-shape in core (prominence)	—

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Date	DOY	Time [UT]	Trajectory PA [deg]	Speed Times [UT] [km/s]	Kinematics				Comments
					#Data Pts	Qual	Feature		
Aug 18	230	~04:47-18:35	085	030	—	—	—	0	No obvious front
Aug 18	230	06:27-08:08	281	108	Aug 18 06:27-06:35	560 _{1*}	252	2	Core
Aug 18	230	16:46-18:19	200	080	—	—	—	0	Front at 16:46 only
Aug 18	230	<01:43~05:30	193	042	—	—	—	1	Inner loop (prominence)
Aug 18/19 230/231	18:02~05:30	18:02-18:27	445 _{1*}	270	3	7	Loop	Two part event:	
230/231	18:02~05:30	18:02-18:27	412 ₂					1. Loop/cavity superposed on and south of streamer. Deflections. Ends in data gap.	
231	<01:43~05:30							2. Faint, concentric loops/cavities (with faint core?) visible after data gap superposed on and south of streamer. Deflections.	
Aug 19	231	12:37~23:48	028?	079?	—	—	—	0	No obvious front
Aug 19	231	15:50-19:11?	261?	062?	—	—	—	1	Outer loop
Aug 19	231	02:52-04:33	240	040	—	—	—	0	Missed front
Aug 20	232	02:52-04:33	240	040	—	—	—	0	Arc at 02:52 only
Aug 21	233	05:08~09:45	291	048	Aug 21 06:40-07:31	481 _{1*}	295	2	Loop
					Aug 21 06:40-07:48	459 _{1*}	290	4	Cavity
						453 ₂			Flattened loop/cavity and core superposed on streamer. 'Light-bulb' shaped late in event. Deflections.

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Date	DOY	Time [UT] [deg]	Cent PA Width [deg]	Kinematics					Comments
				Trajectory Time [UT] [km/s]	Speed PA	#Data Pts	Qual	Feature	
Aug 21/22	233/234	19:48~04:11	294 055	—	—	—	1	Loop	Faint loop(?)/cavity with structured, loop-shaped (prominence?) core superposed on streamer. Possible concave-outward, 'U'-shaped material from 03:29 to 04:11. Streamer is disrupted. Deflections.
				Aug 22 00:25-02:22	184 ₁ * 207 ₂	292	5	5	Cavity in core (late in event)
Aug 22	234	all day	~251	~028	—	—	—	0	No obvious front
Aug 22	234	02:05-03:54?	???	???	—	—	—	0	No obvious front
Aug 22	234	10:11-11:43	117?	055?	—	—	—	0	Front at 10:11 only
Aug 22/23	234/235	17:27-22:37	~350	—	—	—	—	0	No obvious front
Aug 22/24	234/236	23:44-23:46	269	019	Aug 22/23 23:44-02:32	088 ₁ 016 ₂ *	266†	3	Cloud
	234/235	23:44-03:05	292	027	Aug 23 15:14-16:22	231 ₁ * 001 ₂	295	3	Mound
	235/236	15:14-23:46							Could be more than one event:
					1. Fuzzy, faint cloud (or loop/cavity) at north edge of streamer in south images.				1. Fuzzy, faint cloud (or loop/cavity) at north edge of streamer in south images.
					2. Mound superposed on streamer. Material continues to expand and blowout around streamer until end of Aug 24. Cavity(?) visible Aug 24 at ~00:27 until end of day.				2. Mound superposed on streamer. Material continues to expand and blowout around streamer until end of Aug 24. Cavity(?) visible Aug 24 at ~00:27 until end of day.
					Trailing material is concave-outward, 'V'-shaped from ~03:48 until end of day. Region is disrupted. Deflections.				Trailing material is concave-outward, 'V'-shaped from ~03:48 until end of day. Region is disrupted. Deflections.
Aug 23	235	09:14-13:51	085	070	—	—	—	0	Front at 09:14 only
Aug 24	236	01:51-02:08	137	020	Aug 24 01:51-02:08	422 ₁ *	143	2	Loop
					Faint, narrow (multiple?) loop/cavity and possible core between streamers. Deflections.				Faint, narrow (multiple?) loop/cavity and possible core between streamers. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual		
Aug 25	237	11:55~14:58 11:55~14:58	103	037	—	—	—	0	Loop at 11:55 only	Could be two events (or one wide event): 1. Loop/cavity in streamer. Streamer is blown out. Deflections. Slow swelling of streamer visible for ~6 hours prior to event.	
		11:55~14:58 ~149	—	—	—	—	—	1	Cloud	2. Faint cloud with embedded material (or loop/cavity) between streamers.	
Aug 25	237	17:29>18:10	319	018	Aug 25 17:29-18:10	165 ₁ * 239 ₂	318	3	4	Tongue	
		17:45-17:53	206	022	—	—	—	0	Front at 17:45 only	Tongue expands. Visible in rolled south images. Faint material could be ejected north of this region. Ends during data gap.	
Aug 25	237									Concave-outward, 'U'-shaped material in 17:45 image only. Additional material could be present in the southeast in this image only. Data gap follows.	
										DATA GAP: Aug 25 18:07 to Aug 26 18:41.	
Aug 26/27/28/29	23:20~05:29	322	035	Aug 27 00:11:00:52	389 ₁ *	320	4	5	Mound	Structured mound (or loop/cavity) with embedded loop/cavity(?) superposed on rays. Deflections.	
				Aug 27 00:19:00:52	387 ₁ *	320	3	5	Embedded loop		
					175 ₂						
Aug 27	239	04:55-05:21	~090	—	Aug 27 04:55-05:21	312 ₁ * 346 ₂	092†	4	5	Material (prominence?) material at north edge. Deflections.	
Aug 27	239	09:57-13:01	097	075	—	—	—	0	Front at 09:57 only	Faint, wide cloud. Deflections.	
Aug 27/28/29/240	22:13-10:30	113	040	Aug 27/28 22:13-05:54	040 ₁ * 065 ₂	110	4	3	Loop	Loop/cavity with brighter, structured core superposed on streamer. Deflections.	
Aug 28	240	~05:21~19:18	258?	195?	—	—	—	0	No obvious front	Brightening in region prior to event (~7 hours).	
Aug 28	240	11:46~13:34	135	039	Aug 28 11:46-12:02	211, ₁ *	122	2	3	Loop	Extremely wide cloud covers south and west sectors. Motion in north and east. Halo?
										Faint loop/cavity between streamers.	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed PA	Speed #Data	#PA	Qual	
Aug 28/29	240/241	13:34>00:19	102	040	—	—	—	—	1	Cloud
										Cloud around streamer with two tongues of material at south edge. First tongue is visible from 13:34 until 18:11. Second tongue follows from 19:43 until end of day.
Aug 30	242	<00:19~08:08	089	028	—	—	—	—	0	Missed front
										Faint cloud superposed on streamer. Could have missed the front.
Aug 30	242	<00:28~05:04	292	015	Aug 30 00:28-02:00	2021*	300	2	6	Bottom of goal-post shaped cavity
										Cloud(?) containing embedded cavity with well-defined base. Cavity is concave-outward, goal-post shaped. Event is superposed on fan. Region is disrupted. Deflections.
Aug 30	242	03:24~05:37	149	012	Aug 30 03:24-04:05	6431*	151	4	5	Tongue
						7392				Structured tongue superposed on ray.
										DATA GAPS: Aug 30 08:16 to 21:49. Aug 31 03:06 to 17:45.
Aug 31	243	<17:45-20:49	125	058	Aug 31 17:45-18:10	4691*	117	2	5	Outer loop
					Aug 31 17:45-18:27	4481*	134†	4	5	Inner loop
						5152				superposed on pre-existing bright ray. Deflections. Region is disrupted.
Sep 01	244	05:03-08:27	~122	~041	—	—	—	—	1	Outer loop
										Multiple loops/cavities and core (or highly structured, complex cloud) superposed on streamer. Streamer is blown out. Deflections. Could extend as far north as 060°. Data is streaked.
										DATA GAPS: Sep 01 08:16 to 17:04. Sep 02 07:18 to 18:53.
Sep 03	246	~02:58-06:11	076	062	—	—	—	0	Outer loop	Fuzzy outer loop/cavity with sharp, flattened, inner loop/cavity (or mound) and possible core superposed on streamer. Streamer is disrupted. Deflections. Data is streaked.

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Date	DOY	Time [UT] [deg]	Cent PA [deg]	Width [deg]	Kinematics						Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature		
											DATA GAPS: Sep 03 09:15 to 13:18. Sep 04 05:20 to 12:35. Sep 05 23:53 to Sep 06 21:05.	
Sep 07	250	07:49~10:02	~315	~010	—	—	—	—	1	Jet	Fuzzy jet (or ray).	
Sep 07/08	250/251	16:02~02:31	077?	055?	—	—	—	—	0	Too fuzzy	Fuzzy irregular cloud in streamer. Cavity appears at 23:43. Streamer is blown out. Deflections.	
Sep 07/08	250/251	21:54~05:59	288?	065?	Sep 07 21:54~22:19	374 ₁ *	267	3	6	Mound	Faint mound (or loop/cavity) superposed on streamer. Deflections.	
Sep 08/10	251/253	04:02~17:39	251	04:02~07:32	062	025	—	—	—	1	Loop	Could be more than one event: 1. Loop/cavity (or mound) superposed on streamer. Streamer is disrupted. Deflections. 2. Faint mound (or loop/cavity) superposed on rays (or streamer). 3. Faint cloud superposed on streamer (or rays). 4. Blob 'N Ray with faint cloud superposed on streamer (or rays). Deflections.
Sep 08	251	22:26~23:58	270	020	—	—	—	—	0	No obvious front	Faint, narrow cloud.	
Sep 09	252	19:54~23:23	282	033	—	—	—	—	0	No clear front	Structured cloud (or irregular loop/cavity) superposed on rays and streamers. Deflections.	
Sep 10	253	~07:54~23:30	~227	~035	—	—	—	—	0	No clear front	Faint cloud superposed on streamers. Could extend as far north as 260°.	
Sep 10	253	21:50~23:47	078	045	Sep 10 21:50~22:15	234 ₁ *	078	2	5	Inner loop	Fuzzy outer loop/cavity with sharper, concentric, inner loop/cavity superposed on fan (or streamers). Deflections.	
Sep 10/11	253/254	22:23~16:47	~315	~050	—	—	—	—	1	Northern edge	Very faint, slow-moving cloud(s?).	
Sep 11/12	254/255	10:31~01:50	082	045	—	—	—	—	0	No clear front	DATA GAP: Sep 11 04:31 to 08:25. Fuzzy cloud superposed on rays (or streamers). Deflections.	

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Date DOY	Time [UT] [deg]	Cent PA Width [deg]	Kinematics						Comments
			Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	Feature	
Sep 11 254	14:50~17:54	~227	Sep 11 14:50-16:22	151, [*]	220	2	3	Mound	Fuzzy mound superposed on streamer. Brightening as far south as ~160°. DATA GAP: Sep 12 01:59 to 13:33
Sep 12 255	18:25~20:14	142?	024?	Sep 12 18:25-18:42	281, [*]	147	2	5	Mound
Sep 14 257	10:08-13:12	073? 070? 074?	070? 038?	Sep 14 10:08-10:33	478, [*]	064†	2	7	Front at 10:08 only Inner loop (prominence)
Sep 15 258	~02:51~07:27	302	051	Sep 15 02:51-06:36	175, ¹	300	4	5	No obvious front Cavity
Sep 15 258	06:36~09:40	251	050	—	—	—	—	0	Front at 06:36 only
Sep 15 258	13:47-15:38	163	035	Sep 15 13:47-14:04	529, ^{1*}	271†	5	9	Core (prominence)
Sep 16 259	11:30-16:06	066? 078?	—	—	—	—	0	No obvious front	
Sep 16 259	12:28-23:28	252?	039?	—	—	—	0	No clear front	
Sep 16 259	15:33~17:29	279	035	—	—	—	0	Too faint	
Sep 18 261	10:40-15:41	325	050	Sep 18 10:40-12:37	486, ^{2*}	320	6	9	Loop
				Sep 18 11:56-12:37	420, ^{1*}	323†	4	7	Blob in core
				516, ²					Region is blown out. Big deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	# Data Pts	Qual	Feature	
Sep 18/19	261/262	21:15-06:18			Sep 18 21:32-22:39	271 ₁ *	301	3	5	Outer northern cavity	Could be two events: 1. Adjacent, multiple, complex (arcade?) loops/cavities and cores superposed on streamer. Streamer is disrupted. Deflections.
		21:15~01:00	285	055	Sep 18 21:32-23:04	413 ₁ *	285	4	5	Outer southern cavity	
					—	—	—	—	0	Too faint	2. Irregular material with possible fainter loop/cavity and core. Region is blown out.
Sep 19	262	14:14-15:45	191	060	Sep 19 14:14-14:30	386 ₁ *	163†	2	6	Eastern edge of loop (prominence)	Complex, highly structured (prominence) loop/cavity spans pylon shadow. Edges are superposed on streamers. Deflections. Could have missed coronal front between 12:42 and 14:14 images. Width was measured at $3.0R_{\odot}$.
										Mound	Mound (or loop/cavity) with bright, structured (prominence?) core at south edge of streamer.
Sep 20	263	06:47~10:15	298	018	Sep 20 06:47-07:04	348 ₁ *	298	3	9		DATA GAP: Sep 21 04:46 to 14:55.
						47 ₂					Thin, faint loop/cavity and core between streamers. Deflections. Could extend as far south as 195°.
Sep 22	265	17:12-20:16	143?	044?	Sep 22 17:12-19:01	237 ₁ *	145	4	6	Loop	DATA GAP: Sep 22 20:33 to Sep 23 17:24.
						315 ₂					No obvious front. Faint jet (or fan).
Sep 23	266	17:58-21:01	125	010	—	—	—	—	0		Slow expansion of cloud around streamer. Deflections. Streamer is disrupted.
Sep 23/24	266/267	20:36~22:32	~357	~055	—	—	—	—	0		Two overlapping, irregular loops/cavities superposed on and around fan. Very faint material could be ejected as far south as 230°. Deflections.
Sep 25	268	00:25-03:04	313?	090?	Sep 25 00:25-00:41	913 ₁ *	310	2	7	Northern loop	DATA GAP: Sep 25 09:52 to 13:54.
					Sep 25 00:25-00:41	948 ₁ *	310	2	7	Northern cavity	Faint loop/cavity superposed on and south of streamer. Spans pylon shadow. Streamer is partially blown out. Deflections.
Sep 25	268	18:46?~21:41	217	045	—	—	—	—	0	Front at 20:10 only	

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual		
Sep 26	269	~02:00~23:33	297	047	—	—	—	0	No clear front	Slow, faint cloud superposed on fan and streamers. Deflections.	
Sep 26	269	09:55~23:58	190	070	—	—	—	1	Loop	Slow, fuzzy loop/cavity spans Pylon shadow. Superposed on streamer(?). Structured, inner (prominence?) loop follows at 22:26. Deflections.	
Sep 27	270	05:32~06:05	080	040	Sep 27 05:32~05:57	367 ₁ *	075	4	5	Loop	Faint loop/cavity (or mound) between streamers.
Sep 27	270	16:22~20:57	040	060	—	—	—	0	Front at 16:22 only	Structured mound on and between streamers.	
Sep 27	270	18:10~20:49	258	058	—	—	—	0	Missed front	Cloud superposed on streamers and rays. Deflections. Could have missed the front.	
Sep 27	270	20:49~23:52	258	070	Sep 27 20:49~22:21	339 ₁	274†	4	6	Loop	Complex (multiple?) loop/cavity with structured core superposed on streamer. Loop top flattens as it moves outward. Core could be concave-outward, 'V'-shaped. Deflections. Region is disrupted.
Sep 28	271	00:01~04:28	052	045	—	—	—	0	Front at 00:01 only	Multiple loops/cavities and complex, loop-shaped core superposed on streamer. Streamer is disrupted. Deflections.	
Sep 29	272	~02:00~23:26	060	050	—	—	—	1	Cavity	DATA GAP: Sep 28 18:54 to Sep 29 00:37.	
Sep 29	272	07:08~11:27	284?	018?	—	—	—	0	Core (late in event)	Slow loop/cavity(?) and core(?) superposed on streamers (or fan). Fades. Region is mostly blown out. Deflections.	
Sep 29	272	11:27~12:34	262	077	Sep 29 11:27~11:43	18281*	255	2	7	Loop	Structured (prominence?) cloud superposed on streamers and fan. Deflections. Could have missed the front. Could extend as far south as 240°.
										Bright, complex, structured (multiple?) loop/cavity with structured core superposed on faint streamer (or fan). Region is blown out. Big deflections.	

↑ Position of feature was measured along a non-radial line.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	Feature	
Oct 01	274	10:27~12:40	~250	060?	Oct 01 10:27-11:08	544 ₁ *	250	3	6	Outer loop	DATA GAP: Sep 29 14:48 to 17:44.
					Oct 01 10:44-11:08	422 ₁ *	464 ₂	250	3	6	inner loop/cavity and core between streamer Deflections. Possible concave-outward, 'U'-shaped material in core.
Oct 01	274	19:54~22:41	250?	060?	—	—	—	—	—	Front at 20:02 only	Structured(?) loop/cavity and core between and superposed on streamer. Could extend as far north as 310°. Deflections.
											DATA GAPS throughout Oct 02 totaling ~10 hours.
Oct 03	276	08:26~10:14	227?	075?	Oct 03 08:26-08:34	1603 ₁ *	213	2	7	Loop (prominence?)	Very fast, structured, knotty (prominence?) loop/cavity. Could extend as far south as 120° and as far north as 320°. Deflections. Could have missed coronal front between 07:11 and 08:26 images.
											Fuzzy cloud superposed on streamer.
Oct 03	276	11:21-14:25	279	048	—	—	—	—	—	Cloud	Front at 14:33 only
											Faint loop/cavity (or mound) superposed on and north of streamer. Data gap follows. Deflections.
Oct 03	276	14:33~20:40	032	025	—	—	—	—	0		DATA GAP: Oct 03 14:41 to 20:31.
Oct 04	277	04:43-07:55	080	014	Oct 04 04:43-05:41	479 ₁ *	085	2	3	Loop	Small loop/cavity(?) superposed on fan. Deflections.
Oct 04	277	06:23-07:38	276	044	—	—	—	—	0	Front at 06:23 only	Fuzzy, faint loop/cavity (or mound) superposed on and south of streamer. Deflections.
Oct 05	278	17:06~23:29	132	025	—	—	—	—	1	Cloud	Faint cloud superposed on streamer.
Oct 05	278	17:14-21:24	289	042	Oct 05 17:14-17:31	352 ₁ *	295	2	9	Outer loop	Loop/cavity and beautiful, coiled, highly-structured, inner (prominence) loops/cavities superposed on streamer. Streamer is disrupted.
					Oct 05 17:14-18:21	1007 ₂ *	290†	3	9	Outer cavity	
					Oct 05 17:31-18:21	543 ₁ *	291†	2	9	Inner loop	
											Deflections.

† Position of feature was measured along a non-radial line.

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Date	DOY	Time [UT] [deg]	Trajectory Times [UT] [deg]	Kinematics					Comments
				Speed [km/s]	Speed PA	# Data Pts	Qual	Feature	
Oct 05/06	278/279	~22:56~18:43	275 043	Oct 06 02:40-03:23	096 ₂ *	272	6	5	Cavity
Oct 06	279	09:46-10:03	164?	087?	—	—	—	0	Missed front
Oct 06/08	279/281	~21:55~22:45	005 046	—	—	—	—	0	No obvious front
Oct 07	280	19:25-22:45	~122	~045	Oct 07 19:25-19:42	141 ₁ *	120	2	Cavity
Oct 08	281	01:23-04:43	042	047	Oct 08 01:23-01:48	351 ₁ *	042	2	Outer loop
Oct 08	281	01:31-04:51	132 021	—	—	—	—	0	First cavity
			147 032	Oct 08 03:11-03:19	634 ₁ *	145	2	9	Second cavity
			148 012	Oct 08 03:11-03:19	775 ₁ *	145	2	9	Core (prominence)
Oct 09/10	282/283	21:37~07:03	059 018	Oct 09/10 21:37-01:05	036 ₁ *	062	6	4	Cavity
				047 ₂					Cavity with core in streamer. Loop becomes visible around cavity. Streamer is disrupted.
									Data is streaked.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Oct 11/12	284/285	~19:47~01:53	114	036	Oct 11 22:34-22:50	105 ₁ *	112	2	3	Loop
										Motion and expansion of rays. Flattened(?) loop/cavity superposed on rays follows at 22:34. Best seen at 22:50. Deflections.
										DATA GAPS: Oct 12 03:33 to 07:26.
										Oct 12 10:46 to 15:04.
Oct 12	285	15:37~20:11	113	050	—	—	—	—	0	Front at 15:37 only
Oct 12/13	285/286	~20:11~06:43	115	060	Oct 12/13 20:11-05:20	085 ₂ *	120	7	6	Cavity
										Slowly rising cavity with thick fuzzy loop/cavity superposed on streamer(s?). Loop front sharpens as it moves outward. Complex, structured, loop-shaped core appears by 05:20. Region is blown out. Big deflections.
Oct 14/15	287/288	10:14~01:02	130	020	—	—	—	—	1	First cavity
										Slow outward expansion of irregular cavity in streamer. Front evolves. Bright, dimpled, wider loop/cavity and core appear at 23:31 in same location as irregular cavity. Region is blown out. Big deflections.
Oct 14/15	287/288	23:31-01:02	130	050	Oct 14/15 23:31-00:04	57 ₂ , 866 ₂ *	132	3	9	Second cavity
										Slow expansion of complex material in wide streamer. Concave-outward, 'U'-shaped material visible from 18:48 to 19:21 on Oct 14. 'Light-bulb' shaped loop/cavity and core appear in streamer on Oct 15 at 13:05. Streamer is blown out.
Oct 14/15	287/288	11:28~21:06	235	060	—	—	—	—	0	No clear front
										Cavity (late in event)
										DATA GAP: Oct 14 13:16 to 17:17.
Oct 15	288	all day	~294	~027	—	—	—	—	0	No clear front
										Slow expansion of structured cloud superposed on streamer. Streamer is disrupted.
Oct 15	288	04:13~06:59	056	024	—	—	—	—	1	Mound
										Faint, helmet-shaped mound (or loop/cavity) between streamers. Deflections.

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Date	DOY	Time [UT]	Cent PA Width	Kinematics					Comments
				Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
									DATA GAPS: Oct 15 08:39 to 10:10. Oct 15 11:33 to 13:05. Oct 15 16:49 to 20:41. Oct 16 04:27 to 07:21.
Oct 16	289	08:52<23:24	217	024	—	—	—	1	Loop Front at 09:26 only
Oct 16	289	09:28<14:58	079	049	—	—	—	0	Complex (multiple?) loop/cavity at north edge of streamer. Multiple data gaps occur throughout event.
Oct 19/20	292/293	~19:06~15:18	280	051	—	—	—	1	Cloud Slow expansion of structured cloud around small streamer. Multiple loops/cavities and core appear at 09:30 and blowout through streamer. Streamer is disrupted. Deflections. DATA GAP: Oct 19 21:02 to Oct 20 03:16.
Oct 20	293	15:09-16:41	203?	097?	Oct 20 15:09-15:34	610*	234	3	Loop Loop/cavity superposed on faint rays and fan. Partially obscured by pylon shadow. Deflections.
Oct 20	293	20:58~23:11	270	040	Oct 20 20:58-21:39	3951*	263	3	Loop Complex, flattened loop/cavity and structured core superposed on faint streamer (or rays). Deflections.
Oct 21	294	02:05-11:13	105	029	—	—	—	0	Front at 02:05 only Mound superposed on adjacent, overlapping streamers. Some swelling and brightening of region for ~12 hours prior to event.
Oct 21	294	~10:56~20:04	210	027	—	—	—	0	No obvious fronts Two, irregular clouds superposed on ray. First cloud visible from 10:56 until 12:27. Second cloud seen from 15:30 until ~20:04.

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Date	DOY	Time [UT]	Cent PA Width [deg]	Trajectory Times [UT]	Speed PA [km/s]	# Data Pts	Qual	Kinematics		Comments
								Feature		
Oct 22	295	~11:25~23:08	324?	038?	—	—	—	0	No clear front	DATA GAP: Oct 21 20:20 to Oct 22 09:29.
		14:27-15:42	315	020	Oct 22 14:27-15:42	0741*	312†	4	'U'-shaped material	Faint, structured cloud with embedded concave-outward, 'U'-shaped material. Deflections.
Oct 23	296	01:22~12:01	~280	~040	—	—	—	1	Cloud	Faint, structured, complex cloud superposed on faint fan. Faint, narrow material ejected from ~11:19 until 12:01. Region is disrupted. Deflections. Could extend further south.
										DATA GAPS: Oct 23 04:16 to 09:48. Oct 23 15:04 to 19:21.
Oct 24	297	04:20~19:23	042?	025?	—	—	—	0	No obvious front	Structured mound (or cloud) around streamer.
										DATA GAP: Oct 24 06:08 to 10:08.
Oct 24	297	11:39~13:27	237	043	Oct 24 11:39-12:04	231 ₁ *	241	3	Loop	Fuzzy, faint loop/cavity with fuzzy core superposed on faint fan (or streamers). Deflections.
						306 ₂				Bright, complex, wide, outer loop/cavity with inner, 'light-bulb' shaped loop/cavity and structured, complex (prominence?) core superposed on faint fan (or streamers). Big deflections. Region is blown out.
Oct 24	297	18:00>19:56	256	108	Oct 24 18:00-18:25	1453 ₁	245	3	Loop	DATA GAP: Oct 24 19:56 to Oct 25 15:23.
						1956 ₂ *				Structured cloud around streamer. Best seen in 20:22 image.
Oct 26/27	299/300	~20:22~06:35	045	034	—	—	—	0	No obvious front	Structured cloud around streamer. Best seen in 20:22 image.
Oct 26/27	299/300	23:33~03:25	259	064	Oct 26/27 23:33-00:23	6751*	263	2	Loop	Loop/cavity in 23:33 image. Broad, complex loop/cavity (or two overlapping loops) with core containing twisted, structured (prominence) ropes in 00:23 image. Event is superposed on rays (or streamers). Deflections.

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* Preferred fit to the data. This quantity is included in the speed histograms.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Oct 27	300	~03:58-14:35?	129	051	Oct 27 05:13-07:00	100 ₁ * 071 ₂	131	4	3	Loop (Multiple?) loop/cavity with core in streamer. Streamer is disrupted. Slight swelling and brightening of streamer prior to event. Deflections.
Oct 27	300	20:31~23:50	263	035	Oct 27 20:31-21:38	433 ₁ * 365 ₂	270	3	3	Mound Mound superposed on rays. Deflections.
Oct 28	301	05:21~07:17	090?	070?	Oct 28 05:29-05:46	633 ₁ * 124	2	3	Southernmost edge of loop	Big, faint, structured loop/cavity. Could extend as far south as 140°.
Oct 28	301	05:29~08:15	250	100	Oct 28 05:29-06:44	353 ₁ 122 ₂ *	252	4	4	Loop Wide, complex (multiple?) loop/cavity with possible core. Deflections.
Oct 28/29	301/302	~08:48<12:07	134	043	Oct 28 08:48-20:56	018 ₁ * 023 ₂	130	15	7	Cavity (multiple?) complex, inner, loop-shaped core. Streamer expands. Blows out during data gap from Oct 28 20:56 to Oct 29 11:50.
										DATA GAP: Oct 28 10:28 to 13:05. Thin loop/cavity with core superposed on and north of streamer. Deflections.
Oct 28	301	13:13-20:40	230	020	—	—	—	—	1	DATA GAPS: Oct 28 23:25 to Oct 29 07:33. Oct 29 14:52 to Oct 30 04:14. Oct 30 07:58 to Oct 30 12:06.
Oct 30	303	<12:06~16:22	230	040	Oct 30 12:14-15:16	164 ₁ 255 ₂ *	240	7	4	Cloud Faint cloud followed by faint loop/cavity(?) and core.
Oct 31	304	16:46-18:41	089	073	Oct 31 16:46-17:10	539 ₁ * (northern edge)	072	2	7	Loop Complex, multiple, pentagonal loops/cavities with core on and between streamers. Region is partially blown out. Deflections.
Oct 31	304	21:27~22:58	152?	035?	—	—	—	—	0	Missed front? Cloud superposed on streamer. Southern edge near pylon shadow. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Nov 01	305	09:17~12:44	260	050	Nov 01 09:17-10:48	251 ₁	245	4	6	Loop
					365 ₂ *					Broad, complex (multiple?) loop/cavity with wide, structured, complex core superposed on and south of streamer. Region is disrupted.
					Nov 01 09:59-11:30	302 ₁	257	4	6	Core
					416 ₁ *					Deflections.
Nov 01	305	17:25-18:58	072?	042?	—	—	—	0	0	No clear front
					017 ₂					Cloud
Nov 01/03	305/307	~19:54~02:11	285	061	Nov 01/02 19:54-11:20	018 ₁ *	285	6	3	Very slow rising cloud expands on and north of streamer. Region is partially blown out.
					017 ₂					Deflections. Cavity appears at south edge of streamer at 01:57 on Nov 02. Moves out until early Nov 03 then stalls or fades.
Nov 02	306	05:33~17:39			—	—	—	0	0	No clear front
		05:33-06:30?	077	047	—	—	—	0	0	Could be two events:
		13:07-17:39	078	010	—	—	—	1	1	1. Structured cloud superposed on rays. Deflections.
		~02:36-22:25	080	050	—	—	—	0	0	2. Structured knots of (prominence) material superposed on rays.
Nov 03	307	16:22-22:25	102	015	—	—	—	0	0	No obvious fronts
		16:22-22:25	102	015	—	—	—	0	0	Could be two events:
		16:22-22:25	102	015	—	—	—	0	0	1. Irregularly-shaped material along rays (or streamers). Deflections.
Nov 04	308	13:17-14:48	122	053	Nov 04 13:17-13:33	1053 ₁ *	119	2	5	Outer loop
		13:17-14:48	122	053	Nov 04 13:17-13:33	1053 ₁ *	119	2	5	Complex, structured, faint loop/cavity with multiple, interior loops/cavities and core between streamers. Deflections.
Nov 04/05	308/309	23:52~01:23	182	080	—	—	—	0	0	Mound spans pylon shadow.
Nov 05	309	05:39-07:52	077	030	Nov 05 05:39-06:04	304 ₁ *	083	3	5	Loop
		05:39-07:52	077	030	Nov 05 05:39-06:04	304 ₁ *	083	3	5	Irregular, flat-topped loop/cavity superposed on streamer.
Nov 05	309	10:45-15:17	102?	026?	—	—	—	1	1	Mound
		10:45-15:17	102?	026?	—	—	—	1	1	Faint mound superposed on and south of streamer. Could extend as far north as 067°. Fades. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments	
					Trajectory Times [UT]	Speed PA [km/s]	#Data Pts	Qual	Feature		
Nov 05/06	309/310	21:03~00:21	108?	025?	—	—	—	1	Cloud	Faint cloud between streamers.	
Nov 06	310	09:34~23:59	317	052	—	—	—	1	Cloud	Faint, structured cloud. Remnants ejected along ray at 300° late in event.	
Nov 06	310	13:58~15:28	108?	030?	—	—	—	1	Cloud	Faint cloud superposed on and south of streamer. Deflections. Corona brightens from 080° to 134°.	
Nov 07	311	08:15~15:14	0815~11:07	069	057	Nov 07 08:15-09:37	057 ₁ *	060	2	Mound	Two part event: 1. Mound superposed on and north of streamer. Deflections. Streamer is disrupted.
		15:06~15:14	077	035	Nov 07 15:06-15:14	421 ₁ *	069	2	6	Loop (prominence?)	2. Structured (prominence?) loop/cavity around streamer. Streamer is disrupted.
Nov 08/09	312/313	12:23~06:48	050	035	Nov 08 12:23-12:48	094 ₁ *	054	2	4	Cavity	DATA GAP: Nov 07 15:22 to Nov 08 06:12. Thick loop/cavity and structured core between streamers. Core evolves. Deflections.
Nov 08	312	19:48~22:58	314?	055?	—	—	—	—	0	Missed front	Structured loop/cavity superposed on and south of streamer. Region is disrupted. Deflections. Missed top of loop between 18:59 and 19:48 images. Could extend as far south as 275°.
Nov 09	313	20:31~22:01	089	023	—	—	—	0	No obvious front	Cloud superposed on fan (or streamers).	
Nov 09/10	313/314	20:39~05:43	297?	035?	—	—	—	0	Too faint	Very faint, irregularly-shaped cloud superposed on and south of streamer. Material seen as far south as 240°.	
Nov 10	314	14:04~15:59	228?	057?	—	—	—	0	Front at 14:04 only	Faint loop/cavity (or mound) superposed on streamer. Could extend further south.	
Nov 10	314	16:16~18:36	310	044	Nov 10 17:13~17:46	492 ₁ *	308	3	6	Loop	Loop/cavity (or mound) superposed on streamers.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics					Comments
					Trajectory Times [UT]	Speed [km/s]	Speed PA	#Data Pts	Qual	
Nov 10/11/13/14/315	17.05~02.08	244	064	Nov 10 17:05-19:17	129 ₁ *	244	7	6	First loop	Faint (multiple?) loop/cavity with core and inner loop/cavity superposed on and north of streamer.
			169 ₂	Nov 10 18:36-19:17	113 ₁ *	244	3	5	Core	
			159 ₂	Nov 10 21:37-23:32	166 ₁ *	244	3	3	Inner loop	
			049 ₂							
Nov 11	315	00:54~04:12	232	043	—	—	—	0	No clear front	DATA GAP: Nov 10 19:17 to 21:37.
										Material ejected around streamer is disrupted.
Nov 11/12/315/316	19:00~13:05	234	037	Nov 11/12 19:00-02:32	027 ₁ *	233†	5	7	Cavity	Loop/cavity and core blows out slowly in streamer. Gone by Nov 12 ~ 13:05. Streamer is disrupted. Region fades until early Nov 14.
Nov 12	316	07:28-11:18	259	030	Nov 12 07:28-08:34	264 ₁ *	247	4	5	Loop
Nov 13	317	01:25~09:06	047	035	—	—	—	1	Loop	Fuzzy loop/cavity and structured core superposed on streamer. Partially obscured by artifacts. Streamer is disrupted. Deflections. DATA GAP: Nov 13 16:11 to 22:04.
Nov 13/14/317/318	22:29~01:30	077	047	—	—	—	—	0	No obvious front	Cloud expands around streamer. Deflections.
Nov 14	318	11:53~14:29	277	022	Nov 14 11:53-12:10	281 ₁ *	275	2	4	Mound
Nov 14	318	14:46<19:33	117	038	—	—	—	0	Front at 14:46 only	Small mound around streamer (or ray). Mound superposed on and north of streamer.
										Deflections. Ends during data gap.
Nov 14/15/318/319	11:29~11:33	318	11:29-14:46	~220	~020	—	—	—	No obvious front	DATA GAPS: Nov 14 14:54 to 19:25. Nov 14 20:30 to Nov 15 04:02.
										Could be two events: 1. Tongue superposed on streamer. Streamer is disrupted.
										2. Faint, structured cloud superposed on streamer (or fan). Began during data gap. Deflections.

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Date	DOY	Time [UT]	Cent PA [deg]	Width [deg]	Kinematics						Comments
					Trajectory Times [UT]	Speed PA [km/s]	Speed PA	#Data Pts	Qual	Feature	
Nov 15	319	<04:26~16:36	120	020	Nov 15 04:26-12:06	037 ₁	118	6	5	Cavity	Loop/cavity superposed on fan (or streamers). Began during data gap. Amorphous core visible from 12:06 until ~16:36. Region is disrupted. Deflections.
Nov 15	319	06:14~11:33	273	050	—	—	—	0	No clear front	Structured mound (or cloud) with core and structured (prominence) loop/cavity and knots of material superposed on streamer. Streamer is disrupted.	
Nov 15	319	20:34-22:04	255?	070?	Nov 15 07:44-08:57	386 ₁ *	265	5	5	Loop (prominence)	Blobs with arc-shaped material. Could be end of long southwest event that began Nov 11. Event is superposed on streamers and rays.
Nov 16	320	10:05-10:30	~175	~038	Nov 15 20:58-21:15	668 ₁ *	250	2	5	Arc	Structured cloud (or tongue) with knots of (prominence?) material at westernmost edge. Visible in rolled north images. Could have missed cloud front between 09:17 and 10:05. Deflections. Poor data coverage.
Nov 16	320	13:47-14:59	~278	~040	—	—	—	—	1	Loop/cavity and core (or mound) superposed on streamer (or ray). Brighter at south edge. Deflections. Could extend as far south as 246°.	DATA ENDS at 11:52 on November 17, 1989.

Speed₁ ⇒ Speed was determined from a constant velocity fit to the number of points indicated.

Speed₂ ⇒ Speed was determined from a constant acceleration fit to the number of points indicated evaluated at the time of the last measurement (in Trajectory Times column).

* Preferred fit to the data. This quantity is included in the speed histograms.

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